

Riyadi, Chamber of Commerce & Industry









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Supervised By:

Riyadh Chamber of Commerce & Industry General Directorate of Contractors

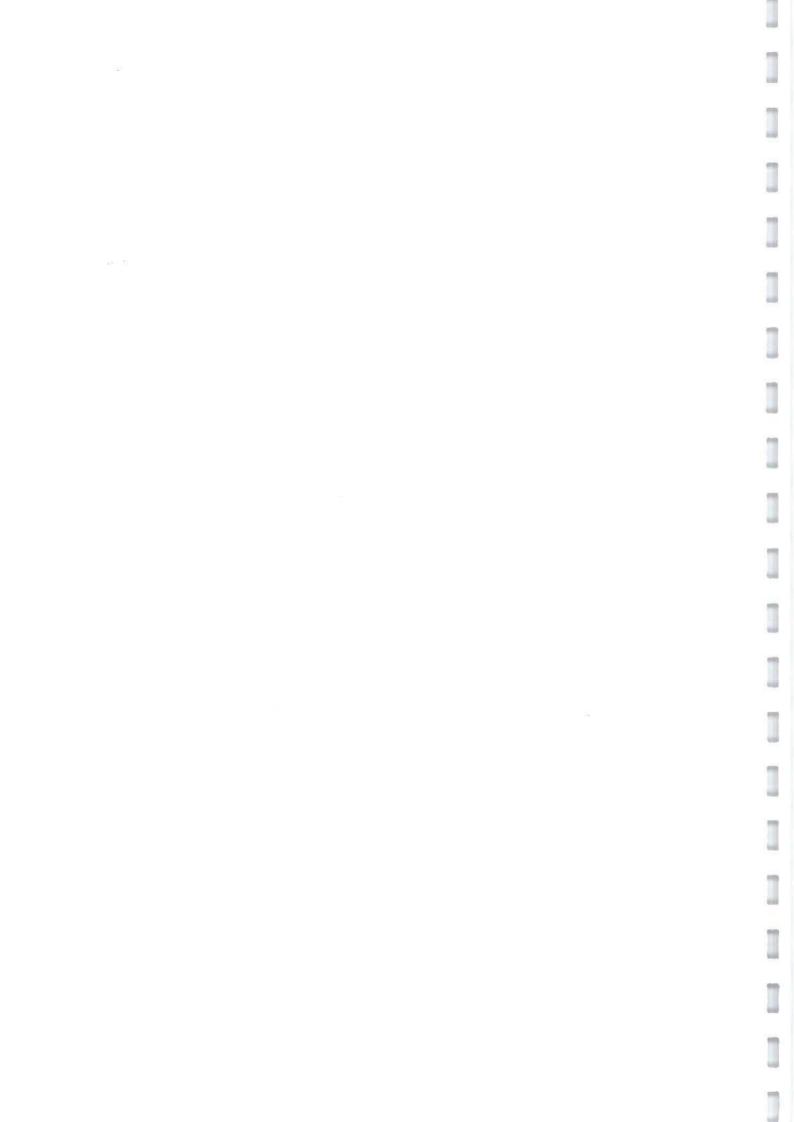




Designed & Directed By: LASHEEN

Permit Printing & Publication &

Second Edition 2007G - 1428H



FOREWORD...

الغرفة العتسارية

The <u>Chamber of Commerce awarded</u> this Construction Cost Estimate to Saudi Projacs - one of the leading Program & Construction Managers in the Kingdom. Saudi Projac in turn got a license from R. S. Means to use their item code, number and line items description, modification to line item description were adopted to meet Kingdom of Saudi Arabia needs.

The purpose of this book is to provide you, the Construction professional, with the most current and comprehensive construction cost data possible.

Whether you are a Contractor, an Owner, an Architect, an Engineer, a Facilities Manager, or anyone else who needs a quick construction cost estimate, you will find this publications to be a highly useful and necessary tool.

Today, with the constant flow of new construction methods and materials, it is difficult to find the time to look at and evaluate all the different construction cost possibilities. In addition, because labor and material costs keep changing, yesterday's cost information is not a reliable basis for today's estimate or budget.

This book is keeping track of the costs for you along with a wide range of other key information. Data is collected and organized into a format that makes the prices information instantly accessible to you. From the preliminary budget to the detailed unit price estimate, you will find that the data in this book is useful for all phases of construction cost determination.

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How the Book is Built.. An Overview..

A Powerful Construction Tool

You have in your hands one of the most powerful construction tools available today for the building industry in the Kingdom of Saudi Arabia.

A successful project is built on the foundation of an accurate and dependable estimate. This book will enable you to construct just such an estimate.

For the casual user the book is designed to be:

- Quickly and easily understood so you can get right to your estimate.
- Filed with valuable trades and items.

For the regular user, the book is designed to be:

- Comprehensive, fully reliable source of current construction productivity rates, so you wil be prepared to estimate any project.
- source book for differentiating between item alternatives productivity.

To meet all of these requirements we have organized the book into the following clearly defined sections:

Quick Start:

This one-page section (see following page) can quickly get you started on your estimate.

How to Use the Book: The Details

This section contains an in-depth explanation of how the book is arranged and how you can use it to determine a reliable construction productivity rate.

Productivity Rate Section:

All data has been divided into the (16) divisions according to the Master Format system of classification and numbering as developed by the Construction Specifications Institute. For a listing of these divisions and an outline of their sub divisions, see the Unit Price Section Table of Contents.

Estimating tips are included at the beginning of each division.

Metric Units:

The units of measure used in the construction trades and their symbols are listed.

Abbreviations:

A listing of the abbreviations used throughout this book, along with the terms they represent, is included.

The Scope of This Book:

Thisbookisdesignedtobeascomprehensive and as easy to use as possible. To that end we have made certain assumptions and limited its scope in two ways:

- 1. The materials prices are established based on a (local average) in a separate book.
- 2. The labor productivity are computed based on a (local average rates).

For a more detailed explanation of how the cost data is developed, see "How To Use the Book: The Details".

Project Size:

This book is aimed primarily at commercial and industrial projects.

How the Book is Built.. Quick Start..

Productivity Rate Section:

If you feel you are ready to use this book and don't think you need the detailed instructions that begin on the following page, this Quick Start section is for you.

These steps will allow you to get started estimating in a manner of minutes.

1- Find each cost data section you need in the Unit Price Section Table of Contents.

The cost data has been divided into (16) divisions according to the CSI Master Format.

- 2- Turn to the indicated section and locate the line item you need for your estimate.
- 3- Determine the total number of units your job will require. Note that the unit of measure for the material you're using is listed under "UNIT".

"Labor-hours and equipment-hours" allows to you to calculate the total labor-hours to complete that task. Just multiply the quantity of work by this figure for an estimate of activity duration.

Commonly Used Abbreviations

Saudi Projacs utilizes standard industry abbreviations. There is a complete glossary of abbreviations in the reference section. The following are a few of the most commonly used abbreviations you'll find in the book.

1 8 4	The second secon
LM	Linear Meter
	En loui Motor

EA Each

CUM Cubic Meter

SQM Square Meter

MET.TON Metric Ton

GAL Gallon

OPR Operator

CSI	N 14: CONVEYING SYSTEMS		0.75				
CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
141	DUMBWAITERS			447 TO 18 1 M	-	Elli-sic.	S. PINIS
141 100	MANUAL DUMBWAITERS						
141 101	DUMBWAITERS:						
141 101-0100	Manual dumbwaiter, 2 stops.average	EA	0 50 Elevator Forman 4.00 Elevator Constructors 1.00 Steel Structure Worker 2.00 Elevator apprentice 3.00 Hand Tools 1.00 Chain Winch	2.000	2.000	2,000	16.000
141 101-0300	Manual dumbwaiter, for each stop,add	STOP	(4)	2.000	2.000	2.000	16.000
141 200	ELECTRIC DUMBWAITERS						
141 201	DUMBWAITERS:						
141 201-0010	Electric dumbwaiters, 2 stops, average	EA	0.50 Elevator Forman 4.00 Elevator Constructors 1.00 Steel Structure Worker 2.00 Elevator apprentice 3.00 Hand Tools 1.00 Chain Winch	0.350	0.500	0.425	91.429
141 201-0600	Electric dumbwaiters, for each additional stop,add	STOP		1,500	2.000	1.750	21.333
142	ELEVATORS				V TARREST	VALUE OF STREET	15.75
142 010	ELEVATORS	A CONTRACTOR OF THE PARTY OF TH					
142 011	ELEVATORS						

How the Book is Built.. The Details..

What's Behind the Numbers?

The Development of Productivity Data

Just as in a schedule estimate, the work is divided into tasks or activities. A crew of labor and equipment is assigned to each task, a projection is made of the time, or duration required to complete the task.

Required Task Information.

The detailed information required for task estimating is simply the description of resources required to perform the task and the duration or time needed to apply these resources:

Basic Task Information

These data requirements are normaly divided into three (3) categories:

- The crew and equipment to be used.
- The task productivity rate.
- The task labor and equipment hour required to complete the task.

Crew Determination

The labor and equipment performing a task at a job site function as an integrated unit, and are simply termed crew or crew and equipment spread.

Crew productivity is a function of several factors including equipment productivity, the match between crew and equipment, experience of the team, nature of the work, and working conditions at the job site. There are basically two types of crew and equipment spreacis:

- When the task is equipment intensive, the emphasis is on equipment selection. An scrapers. A crew is then selected which can operate all of the equipment efficiently.
- 2) When the task is labor intensive, a crew is selected with skils that best match the task requirements. Equipment is secondary and may have such a low cost that it need not be included in the crew pricing.

For example, Ladders are seldom priced with painting crews.

Crew Checklist

The checklist in figure (2) can be used as starting point for developing crews.



Rounding of Costs

In general, all unit prices in excess of SR1.00 have been rounded to make them easier to use and still maintain adequate precision of the results. The rounding rules we have chosen are the following table.

Prices From	Rounded in the nearest
SR. 01 to SR5.00	SR.01
SR5.01 to SR20.00	SR.05
SR20.01 to SR100.00	SR.50
SR100.01 to SR300.00	SR1.00
SR100.01 to SR1,000.00	SR5.00
SR300.01 to SR10,000.00	SR25.00
SR10,000.01 to SR50,5000.00	SR100.00
SR50,000.01 and above	SR500.00

Crew Checklist

- What machines or operations require an operator?
- Is more than one operator required?
- What support is required for the operator, i.e., howmany laborers or skilled tradesmen are required?
- Are there safely-related factors which required extra personnel?
- Does traffic control in a congested urban area required additional crew members?
- Do whether conditions require extra persons on the crew for curtain tasks? Concrete placement in how weather usualy requires extra finishers (considered in the average
 productivity).
- Finally, what does each person on the crew do and why is he there?

Formals and Conventions:

Commas are not used when writing SI Metric numbers. Use spaces for inserting numbers over for digits (27 548).

Use a **0** before a decimal when writing a number less than one (0.275).

Leave space between a number and a symbol (81 kg, not 18 kg).

Do not use the plural of symbols (54 m, not 54 ms).

A center dot is used to indicate the product of two units (N m) rather than x or *.

Transition Guidelines:

For the convenience of the user during this transition period, the following conventions have been used.

- * Gage (or gauge) remains the same (16 ga, 18 ga) for all products such as sheet metal and wire.
- * Soft metric conversion of pipe sizes is followed by the inch dimension [3].
- * Reinforcing bar size designations remain the same as the present ASTM Standard.
- * The M after A615 indicates a metric specification. A615M reinforcing bars come in Grade 400, indicating 400 MPa yield strength.
- * Structural steel members have been expressed in their nominal SI size, followed by their in-Ib size (W 360 x 39 [W 14 x 26]).
- * Concrete strengths have been expressed in nominal SI units (2500 psi 20 MPa, 3500 psi = 25 MPa).
- * Electrical conduit sizes have been expressed in nominal SI (mm) sizes, with the inch size following [3"].



About the Metric Edition

What is SI Metric?

SI (System International) Metric is the name given to the modern measurement system that has been adopted as a worldwide standard for the prepared system of weights and measures. In the SI Metric System, only one unit is used to describe a measured quantity. It is infinitely simple in that there are no conversions to remember (inches, feet, yards, fathoms, rods, chains, furlongs, miles, etc.) All quantities are derived using decimal arithmetic from the base units. The following is a list of SI Metric Base units used in this book.

Base Units:

There are seven metric basic units of measurement, six of which are used in design and construction as follows:

Quantity or Measurement	SI Unit	Symbol
length	meter	m
mass (weight)	kilogram	kg
time	second	S
electric current	ampere	Α
temperature	kelvin	K
luminous intensity	candela	cd

All other SI units are derived from these base units.

Note: In using symbols for SI Units, the sue of the proper upper case or lower case letters is most important.

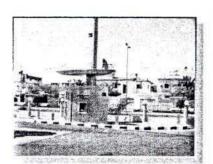
SI Decimal Prefixes:

Factor	Prefix	Symbol
1 000 000 000 = 109	giga	G
1 0000 000 = 106	mega	М
1 000 = 103	kilo	k
100 = 102	hecto	h
10 = 101	deka	da
0.1 = 10-1	deci	d
0.01 = 10-2	centi	С
0.001 = 10-3	milli	m

The most commonly used SI prefixes in construction are kilo (k) and milli (m).

Division 1 General Requirements



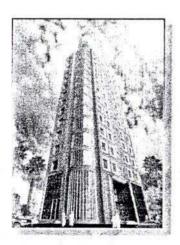


عد وصوامنا حن (قوار التشبيط) إلى مجال القساولات عام () إذا عدمنا على تقليم ماهر أفضل وماهو معنز معام مقال التصميم والإشراف وتقديم الاستشارت الهندسية لختام أنواع النائل وتقديم الأهندسية للمشاريع النائل وتقديم الأفضل عصميات الإدارة الهندسية للمشاريع المتعدد شرف المهنة بأعلى مستوى من يختاطات وتعاليدنا وتقاليدنا وتعاليدنا وتعالياته وهذه هي قمة السعيدي ومتطلياته وتدرسي تطمرحه وتطلعاته وهذه هي قمة والمعاليات السامية



يند الخدمامنا نحن (ادوار - مهندسون استشاريون) إلى مجال الاستشارات الهندسية عام ((١٠٠١م)، هدفتا وحرصنا على تقديم فاهو افضل وماهو معيز العمليات التصميم و الإشراف القديم الاستشارت الهندسية لمختلف أنواع الماني وتقديم الخيصا في عمليات الادارة الهندسية للمشاريع الصغيرة منها التعيرة عمليات الادارة الهندسية للمشاريع الصغيرة منها التعيرة عمل المخدم شرف اللهنة باعلى مستوى من الخدمات التعيرة عمل المانية على عاداتنا وتقاليدنا وترجمة التعاميم هندسية تخدم الشعب السعودي منطاعاته وهذه هي قمة اولوياتنا ومنطاعاته وهذه هي قمة اولوياتنا الساهية المناهية المناهية المناهية





الرياض - شارع التخصصي مقابل اليورمارشية - مكتب (٥) هاتف ٢٩٣٢٢٦٣ - فاكس ٢٩٣٥٦٦٢ ص.ب ٢١٦٢٢ الرياض ١١٦٣٢

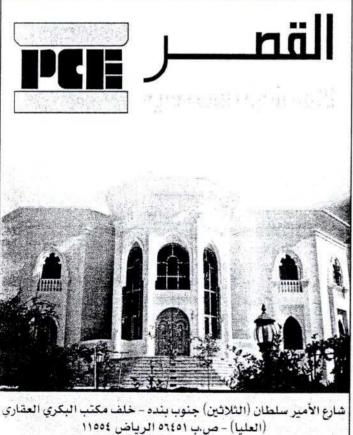




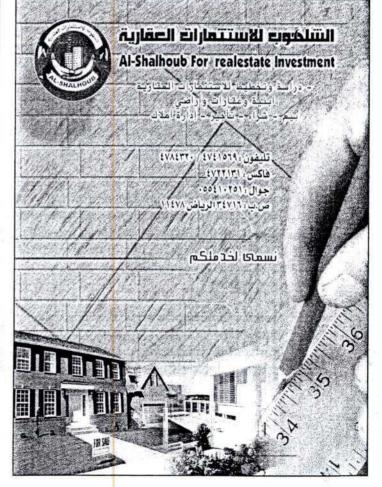
The industry of publicity & advertising is a distinguished integration for number of inspired elements which we have profoundly and objectively crowned in Lasheen.

The basis of the work at Lasheen is founded on reflecting creative work most accurate details that serve customers activity and achieve their objectives.

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General Requirements

Estimating Tips

While General Requirements items are not directly referred to on the plans, they are an inherent part of the construction process. A thorough review of the plans is required in order to determine the quantities associated with General Requirements items, both construction aids such as scaffolding and equipment needs, and administrative overhead.

Many of the items that comprise the General Requirements, such as scaffolding and the hookup and dismantling of temporary power, are not production-related and sometimes are mistaken as having no real cost. A review of the plan will help to identify and account for these items in the quantity take-off. Any experienced contractor can testify to the fact that there is a definite cost to the administration of a project.

Overhead

Overhead costs are generally divided into general overhead costs and job overhead costs. The general costs include items that cannot be readily charged to any one project, while the job overhead costs include all items that can be readily charged to any one project and yet are not for materials or labour.

Depending on where the various costs are included, the cost of overhead can vary from (8%) to (30%) percent of the sum of materials, labour, and equipment. No one figure is correct, since the costs of running each office must be analyzed carefully to determine its overhead.

General Overhead costs are not readily chargeable to one particular project - they represent the cost of doing business and fixed expenses that must be paid by the contractor. The following should be included:

/ Office:

Rent (if owned - the cost plus return on investment), electricity, heat, office supplies, postage, insurance (fire, theft, liability), taxes (property, water), telephone, and office machines and furnishings.

/ Staff Salaries:

Office employees such as executives, accountants, estimators, purchasing agents, book-keepers, secretaries, and anyone else working in office.

/ Miscellaneous:

Advertising, literature (magazines, books for library), legal fees, (not applicable to one particular project), professional services (architects, engineers, consultants), donations, travel (including company vehicles) and association dues.

Job Overheads also referred to as general conditions expense, job overhead comprises all costs that can be readily charged to a specific project. It includes the items of job expense that cannot be charged directly to a particular branch of work, but are required to construct the project. The list of job overhead items is placed on the first of the general estimate sheets under the heading of "Job Overhead" or "General Conditions".

Itemising each cost gives the estimator a basis for determining the amount of that expense and provides for comparison of projects. A percentage should not be added to the cost simply to cover this item. It is important that each portion of the estimate can be analyzed for accuracy to determine whether the estimator should bid an item higher or lower next time.

General Requirements

Staff Salaries: This will include the salaries paid to the project superintendent, assistant superintendent, time-keeper, material clerk, all foremen required, and security, if needed. The cost must include all travelling expenses of these people.

The salaries of the various workers required are estimated per month, and that amount is multiplied by the estimated time it is expected that each will be required on the project.

The Project Schedule

Drafting a schedule is a necessity, whether for a simple office building, residential or a complex multi-story tower hotel. Drafting and revising a schedule are the only means of determining both how long the project will last and what the time-sensitive General Requirements expenses will be.

The Construction Manager and Other Field Staff

The contractor is advised to include a cost for the salary of the field construction manager to manage the project. Some projects require that the same construction manager be present from commencement to completion, to provide a sense of continuity. In that case there is little creativity involved in determining the cost. Additional field or office personnel may be indicated in the specifications. Expenses such as travel may be part of the cost of such personnel.

Clean-up and Debris Removal

There are two basic classifications of clean-upgeneral, which is ongoing for the duration of the project, and final which entails the final cleaning of the premises prior to occupancy by the owners. The contractor must calculate the man-hours and resources needed to perform the general cleanup over the length of the project, including such costs as dumpster rental and removal, and storage of the dumpster in the street. It is important to note the associated costs of constructing and dismantling such items as ramps and chutes.

Final cleaning tends to be more specialized, requiring buffing and vacuuming equipment not usually considered part of the general contractor's typical work, and may be performed by a company normally provides these services.

General Requirements

Project closeout & Demobilization

Project closeout is bringing the project to final completion. It includes the submission of as-built drawings, warranties maintenance and operational instructions and literature; the removal of contractor equipment; and the punch list. All of these items represent a definite cost to the contractor and should be carried in the bid. These items tend to be manpower-intensive and should not be overlooked.

Temporary Facilities

Temporary Facilities include costs such as those associated with a field office, particularly the expenses incurred in the set-up, removal, and rental of trailer. Also in this category are monthly expenses for equipment such as telephone, fax, copy machine, and blue-printing machine. The contractor must also calculate the cost of such services as temporary light and power, air conditioning, and water services for both the field office & the project itself.

This involve determining how long the field office will be needed, and at what point the permanent utilities will be available to the building. Other items classified as temporary facilities are portable toilets; temporary barricades; and pest control; staging and platforms; cranes and hoists; and project signs. The cost of most of these items is related to the amount of time needed and can be predicted by reviewing the schedule.

Testing and Inspection

Many specifications require the testing and inspection of completed work. Testing often takes place in the field as the work is in progress. Soil and concrete testing are examples of such testing services. The cost of these services is commonly assumed by the contractor. The cost for the services can be calculated based on the frequency of inspection as indicated in the specs or as stipulated by code requirements.

Submittals and Samples

Specifications often require that literature and samples be submitted for approved. Some contractors might think this is a redundant. This may be redundant, since the submittals are materials specified by the designer, but it is simply one item in a series that insure the project is built as designed. The contractor must take into account the cost of purchasing required samples.

Permits and Fees

The category of permits and fees deals almost exclusively with the costs imposed by the local municipality. Included are such items as building permit; assessments for the connection of sewer; water, or storm drainage lines to main line.

General Requirements

Factors Affecting Productivity Output

Weather Conditions:

Several items of extra cost must be considered, including the cost of temporary enclosures and the cost of protecting equipment from weather elements.

Miscellaneous items that should be contemplated include the possibility of damaging adjacent buildings due to severe weather conditions such as heavy rain. Humidity is another element of weather that could force the work to be stopped.

Nationality of Labour:

Saudi Arabia has expatriates from over (100) different countries and its labour force have a vast variety of nationalities. Different nationalities produce different productivity rate depending on the nature of the work performed.

Safety Conditions:

Projects that comply with safety requirements make life easy for the labour force for a better production.

Skilled Trade-Men:

Skilled labour will provide good performance and increased productivity in a shorter time.

Other Factors:

The following construction related issues can effect on the productivity of different labour force:

- / Size and shape of construction.
- / Height of construction.
- / Area
- / Location
- / Type of construction.

CSI	ITEM DESCRIPTION	UNIT	QUNTITY	UNIT SALARY	%SALARY OVERHEA D	UNIT MATERIAL COST	UNIT LABOR COST	UNIT EQ.	TOTAL UNIT COST	TOTAL
010 000	DIRECT OVERHEAD RUNNING COSTS:		V D	Market Sil			3-7-3			原 第6
010100	DIRECT OVERHEAD COSTS:									
010 110	CONSTRUCTION STAFF AT SITE: FIELD STAFF									
703000.00=	ARREST AND ARREST ARREST AND ARREST AND ARREST AND ARREST AND ARREST ARRE	10001100								
	Construction manager or superintendent, Unique & large jobs.	Man Month		20,000	48 42%				29,683	
	Field Architect, Engineer, unique & large jobs	Man Month		18,000	49.24%			H	26,863	
	Field Civil Engineer, Unique & large jobs.	Man Month		18,000	49.24%				26,863	
32737000	0 Field Electrical Engineer, Unique & large jobs	Man Month		15,000	50.88%				22,631	
the United States	Field Mechanical Engineer, Unique & large jobs	Man Month		15,000	50.88%				22,631	
minimum series	Field Quantity Surveyor	Man Month		5,000	50.17%				7,508	
mana anno and	Field Surveyor	Man Month		3,500	52.65%				5,343	
010112-0900		Man Month		550	107.80%				1,230	
	Laboratory Material Testing Engineer	Man Month		12,000	53,33%				18,400	
	Laboratory Technicians	Man Month		4,000	51 20%				6.048	
	Laboratory Laborer	Man Month		550	107.80%				1,230	
1200,000,000	Stores Manager	Man Month		2,000	61,35%				3,227	
IN BOOK OF THE OWNER, ON THE O	Store Keepers	Man Month		1,400	70.06%				2,381	
010012-2000	Store Drivers	Man Month		1,200	74.90%				2,099	
010112-2100	Workshop Manager	Man Month		8,000	45.12%		_		11,690	
010112-2200	Workshop Mechanic	Man Month		3,500	52.65%				5,343	
010112-2300	Workshop Drivers	Man Month		1,200	74.90%				2,099	
10114	PROJECT MANAGER:									
010114-0100	PROJECT MANAGER LARGE OR UNIQUE PROJECTS	Man Month		25,000	46.94%				36,735	
	PROJECT MANAGER MEDIUM SIZE JOBS UP TO 100 M	Man Month		18,000	49.24%				26.863	
010114-0140		Man Month		12,000	53.33%				18,400	- ×
010114-0160	Project Manager Secretary	Man Month		2,500	53.33%				3,932	2
10116	PROJECT MANAGER SUPPORTING STAFF:								0,532	
010116-0100	Accountant	Man Month	т Т	4,500	50.07%				6,753	-
010116-0200	Accountant Aid	Man Month		3,000	54.58%	-				
Mary III Mary 188	Computer Operators	Man Month		3,500	52.65%				4,638	
-	Claims Manager.	Man Month		15,000	50.88%				5,343	
	Draftsman, shopdrawings	Man Month		2,500	57.29%				22,631	
010116-0600		Man Month		1,200	74.90%				3,932	10
STATE CAN BE ADD OF	Engineer, Architect., Shopdrawings & Materials Approval	Man Month	-	10,000	100000000000000000000000000000000000000				2,099	٠
and a Chair Chair	Engineer, Civil, Shopdrawings & Materials Approval	Man Month		-	55 79%				15,579	at a
	Engineer, Electrical, Shopdrawings & Materials Approval	Man Month		7,000	62.11%		-		11,348	
		10000000000000000000000000000000000000		7,000	52.11%				11,348	1
	Engineer, Mechanical, Shopdrawings & Materials Approval	Man Month		7,000	62.11%			-	11,348	
	Engineer, Planning	Man Month		8,000	59 48%				12,758	
	Engineer, Structural, Shopdrawings & Materials Approval	Man Month		7,000	52.11%				11,348	
110116-1300		Man Month		2.000	61 35%				3,227	
	File Keeper	Man Month		1,500	68 13%				2,522	
	Office Service, Laborers	Man Month		550	107.80%				1,182	
A SALESTINA	Procurement Manager	Man Month		3,000	54.58%				4,638	28
ano and in	CONSULTANT/ OWNER OH EXPENSES:									
- 1	CONSULTANT/OWNER REPRESANTATIVE OFFICES:			-						
10221-0100	Office cleaning consumables	Man Month				10			10	
	Drinking water supplies including tea service,	Man Month				22			22	
	Electrical Power Supply, on-site generation at 875 KWH per man month.	Man Month							263	100
1,424 3554	Equipment Maintenance, computers, copiers, printers, etc. jobs more than 20 million SR.	MORE							200	0
	General Water Supplies at 4.5 CUM per man month.	Man Month			Sugar Section				25	
	Offices Service laborers	Man Month		550	114.91%				1,182	
	Supplies, stationary, & computers supply	Month							700	
1	Telephone & Fax bills- Local & In Kingdom Long distance calls Average	Month							2,000	5
	CONSULTANT ACCOMODATION & SERVICES:				and the same					-0.17%
0224-0100 (Cars Insurance,consultat staff	Car Month							125	2
anny mann o	Cars Insurance, Owner's represantative, "if required".	Car Month		-					167	

CODE	ITEM DESCRIPTION	UNIT	QUNTITY	UNIT SALARY	%SALARY OVERHEA D	UNIT MATERIA COST	L LABOR COST	UNIT EQ.	TOTAL UNIT COST	TOTAL
010224-0300	Cars Maintenance & fuel, Consultant staff	Car Month							300	
010224-0400	Cars Maintenance & fuel Owner's representative. "if required"	Car Month							400	
10300	CONTRACTOR SITE OVERHEAD EXPENSES:									
010310	CONTRACTOR OFFICES:									
010310-0100	Office cleaning consumables	Man Month				1	12		12	
	Drinking water supplies	Man Month					20	1	20	
	Electrical Power Supply, on-site generation at 625 KWH per man month.	Man Month							188	IV.
010310-0500	Equipment Maintenance, computers, copiers, printersetc. jobs more than 20 million SR.	Month							350	
010310-0600	General Water Supplies, at 4.5 CUM per man month	Man Month							25	2
010310-0660	Offices Service laborers	Man Month		550	114.91%				1,182	-
010310-0700	Office Supplies, stationary, & computers supply	Month							1,500	30
010310-0800		Month							1,000	*
010310-0900		Month							3,000	*1
010310-1000	Office, travel expenses from site to main office, if applicable cost depends on site location and class of travel. Assume an average of 2 trips monthly.	Trip								
10340	CONTRACTOR STAFF ACCOMODATION:									
010340-0100	Cars Insurance,contractor staff.	Car Month							125	*5
Constitution of the Consti	Cars Maintenance & fuel, Contractor staff.	Car Month			-		+		350	
AND THE PARTY OF T	Consumables, housekeeping, for all campuses, Average	Man Month					+	 	7	
010340-0400		Man Month		3,500	52.65%		-	-	5,343	
				750	95.21%	-	+	-	-	
	Cook assistants	Man Month		750	95,21%		+	-	1,464	
010340-0500	Drinking water, contractor campuses	Man Month					4		24	
010340-1100	Labor transportation from of -site labor campuses to site within 50 KM trip distance.	Man Month	6,480.00	13	74.90%		25	5	28	182,41
010340-1200	Water Supply city connected, per person, Monthly, at 8 CUM per person.	Man Month							44	
010340-1300	Water supply per person, on-site delivery, Monthly.	Man Month		707 - SE					67	
10400	ENVIROMENTAL & SAFETY MEASURES EXPENSES:									
010400-0100	Ambulance insurance	Month							250	
		Carrena I							300	OF:
010400-0200	Ambulance maintenance & fuel	Month								
C-000000	Ambulance maintenance & fuel Doctor, "general practice" in remote sites	Month Man Month		9,000	45.56%				13,100	(8)
010400-0300		Man Month		9,000	45.56%				13,100 15	(e)
010400-0300	Doctor, "general practice" in remote sites	Man Month Man Month		9,000	45.56%					
010400-0300 010400-0400 010400-0500	Doctor, *general practice* in remote sites First aid expenses average Medicine consumables for remote sites	Man Month		9,000	45.56%				15	100
010400-0300 010400-0400 010400-0500	Doctor, "general practice" in remote sites First aid expenses average Medicine consumables for remote sites Sewer, Septic tank(s) contents removal, all campuses & construction area pits. Assumed 0.15 cum daily per person.	Man Month Man Month Man Month		9,000	45.56%		(0	15 35	10%
010400-0300 010400-0400 010400-0500 010400-0600 010400-0700	Doctor, *general practice* in remote sites First aid expenses average Medicine consumables for remote sites Sewer, Septic tank(s) contents removal, all campuses & construction area pits. Assumed 0.15 cum daily per person. Progressive site clean-up, Based on site area.assume monthly at 0.028	Man Month Man Month Man Month Man Month		9,000		Contract Va		0	15 35 36	100
010400-0300 010400-0400 010400-0500 010400-0600 010400-0700 10420	Doctor, "general practice" in remote sites First aid expenses average Medicine consumables for remote sites Sewer, Septic tank(s) contents removal, all campuses & construction area pits. Assumed 0.15 cum daily per person. Progressive site clean-up, Based on site area.assume monthly at 0.028 Hour/SQM. Consider actual cleaning area equals to uncovered site area.	Man Month Man Month Man Month Man Month	0.250%	9,000		Contract Va	ues	0	15 35 36	100
010400-0300 010400-0400 010400-0500 010400-0600 010400-0700 10420 010420-0100	Doctor, "general practice" in remote sites First aid expenses average Medicine consumables for remote sites Sewer, Septic tank(s) contents removal, all campuses & construction area pits. Assumed 0.15 cum daily per person. Progressive site clean-up, Based on site area.assume monthly at 0.028 Hour/SQM. Consider actual cleaning area equals to uncovered site area.	Man Month Man Month Man Month Man Month Man Month Man Month Month Sqm	0.250% 0.650%	9,000		The Market	lues	0	15 35 36	112,500
010400-0300 010400-0400 010400-0500 010400-0700 010400-0700 10420 010420-0100 010420-0200	Doctor, "general practice" in remote sites First aid expenses average Medicine consumables for remote sites Sewer, Septic tank(s) contents removal, all campuses & construction area pits. Assumed 0.15 cum daily per person. Progressive site clean-up, Based on site area.assume monthly at 0.028 Hour/SQM. Consider actual cleaning area equals to uncovered site area. INSURANCE Builders all risk type insurance, percent of contract value.	Man Month Man Month Man Month Man Month Man Month Man Month Month Sqm % Job Value	VAVALUE I	9,000		45,000,00	lues 0	0	15 35 35 0 45,000,000	112,50
010400-0300 010400-0400 010400-0500 010400-0700 010420-0100 010420-0200 010420-0300	Doctor, "general practice" in remote sites First aid expenses average Medicine consumables for remote sites Sewer, Septic tank(s) contents removal, all campuses & construction area pits. Assumed 0.15 cum daily per person. Progressive site clean-up, Based on site area.assume monthly at 0.028 Hour/SQM. Consider actual cleaning area equals to uncovered site area. INSURANCE Builders all risk type insurance, percent of contract value. Builders equipment insurance, percent of total on-site equip, value	Man Month Man Month Man Month Man Month Man Month Month Sqm % Job Value % Eq Value	0.650%	9,000		45,000,00 45,000,00	lues 0	0	15 35 36 0 45,000,000 45,000,000	112,50(292,50)
010400-0300 010400-0400 010400-0500 010400-0600 010400-0700 010420-0100 010420-0200 010420-0300 010420-0300	Doctor, *general practice* in remote sites First aid expenses average Medicine consumables for remote sites Sewer, Septic tank(s) contents removal, all campuses & construction area pits. Assumed 0.15 cum daily per person. Progressive site clean-up, Based on site area assume monthly at 0.028 Hour/SQM. Consider actual cleaning area equals to uncovered site area. INSURANCE Builders all risk type insurance, percent of contract value. Builders equipment insurance, percent of total on-site equip, value. Builders risk standard Insurance, percent of contract value.	Man Month Man Month Man Month Man Month Man Month Month Sqm % Job Value % Eq. Value % Job Value	0.650%	9,000		45,000,00 45,000,00	lues 0	0	15 35 36 0 45,000,000 45,000,000	112,500 292,500 57,500
010400-0300 010400-0400 010400-0600 010400-0700 110420 010420-0100 010420-0200 010420-0400 010420-0500	Doctor, "general practice" in remote sites First aid expenses average Medicine consumables for remote sites Sewer, Septic tank(s) contents removal, all campuses & construction area pits. Assumed 0.15 cum daily per person. Progressive site clean-up, Based on site area.assume monthly at 0.028 Hour/SQM. Consider actual cleaning area equals to uncovered site area. INSURANCE Builders all risk type insurance, percent of contract value. Builders equipment insurance, percent of total on-site equip, value. Builders risk standard Insurance, percent of contract value. Employees Medical insurance, See Manpower OH costs: Div. 010058	Man Month Man Month Man Month Man Month Man Month Month Sqm % Job Value % Eq. Value % Job Value Man Year	0.650%	9,000		45,000,00 45,000,00	lues 0	0	15 35 36 0 45,000,000 45,000,000	112,500 292,500 67,500
010400-0300 010400-0400 010400-0500 010400-0600 010400-0700 10420-0100 010420-0200 010420-0300 010420-0400 010420-0500 104420-0500	Doctor, "general practice" in remote sites First aid expenses average Medicine consumables for remote sites Sewer, Septic tank(s) contents removal, all campuses & construction area pits. Assumed 0.15 cum daily per person. Progressive site clean-up, Based on site area.assume monthly at 0.028 Hour/SQM. Consider actual cleaning area equals to uncovered site area. INSURANCE Builders all risk type insurance, percent of contract value. Builders risk standard Insurance, percent of total on-site equip. value Builders risk standard Insurance, percent of contract value. Employees Medical insurance, See Manpower OH costs. Div. 010058 Employees social security insurance, See manpower OH costs. Div. 010058	Man Month Man Month Man Month Man Month Man Month Month Sqm % Job Value % Eq. Value % Job Value Man Year	0.650%	9,000		45,000,00 45,000,00	lues 0	0	15 35 36 0 45,000,000 45,000,000	112,50 292,50 67,50
010400-0300 010400-0500 010400-0500 010400-0600 010400-0700 10420-0100 010420-0200 010420-0300 010420-0500 10440-0100	Doctor, "general practice" in remote sites First aid expenses average Medicine consumables for remote sites Sewer, Septic tank(s) contents removal, all campuses & construction area pits. Assumed 0.15 cum daily per person. Progressive site clean-up, Based on site area.assume monthly at 0.028 Hour/SQM. Consider actual cleaning area equals to uncovered site area. INSURANCE Builders all risk type insurance, percent of contract value. Builders equipment insurance, percent of total on-site equip, value Builders risk standard Insurance, percent of contract value. Employees Medical insurance, See Manpower OH costs Div. 010058 Employees social security insurance, See manpower OH costs Div. 010058 JOB CONDITIONS & PRICE ESCALATION: Escalation to mid - point of construction for jobs over than 2 years,	Man Month Man Month Man Month Man Month Man Month Month Sqm % Job Value % Eq Value % Job Value Man Year Man Month	0.650% 0.150%	9,000		45,000,00 45,000,00	lues 0	0	15 35 36 0 45,000,000 45,000,000	112,500 292,500 67,500
010400-0300 010400-0400 010400-0500 010400-0600 010400-0700 010420-0100 010420-0200 010420-0300 010420-0500 10440-0500 010440-0200	Doctor, "general practice" in remote sites First aid expenses average Medicine consumables for remote sites Sewer, Septic tank(s) contents removal, all campuses & construction area pits. Assumed 0.15 cum daily per person. Progressive site clean-up, Based on site area.assume monthly at 0.028 Hour/SQM. Consider actual cleaning area equals to uncovered site area. INSURANCE Builders all risk type insurance, percent of contract value. Builders risk standard insurance, percent of total on-site equip. value Builders risk standard insurance, percent of contract value. Employees Medical insurance, See Manpower OH costs. Div. 010058 Employees social security insurance, See manpower OH costs Div. 010058 JOB CONDITIONS & PRICE ESCALATION: Escalation to mid - point of construction for jobs over than 2 years, consider 1.5 % annually of the total direct cost every extra year. Labor shortage at site location, add. 10 % to labor cost value.	Man Month Man Month Man Month Man Month Month Sqm % Job Value % Eq. Value % Job Value Man Year Man Month	0.650% 0.150% 1.500%	9,000		45,000,00 45,000,00	lues 0	0	15 35 36 0 45,000,000 45,000,000	112,500 292,501 67,501
010400-0300 010400-0500 010400-0600 010400-0600 010400-0700 10420-0100 010420-0200 010420-0300 010420-0500 10440-0100 010440-0300 010440-0300	Doctor, "general practice" in remote sites First aid expenses average Medicine consumables for remote sites Sewer, Septic tank(s) contents removal, all campuses & construction area pits. Assumed 0.15 cum daily per person. Progressive site clean-up, Based on site area assume monthly at 0.028 Hour/SQM. Consider actual cleaning area equals to uncovered site area. INSURANCE Builders all risk type insurance, percent of contract value. Builders equipment insurance, percent of total on-site equip. value Builders risk standard Insurance, percent of contract value. Employees Medical insurance, See Manpower OH costs: Div. 010058 Employees social security insurance, See manpower OH costs: Div. 010058 JOB CONDITIONS & PRICE ESCALATION: Escalation to mid - point of construction for jobs over than 2 years, consider 1.5 % annualy of the total direct cost every extra year. Labor shortage at site location, add: 10 % to labor cost value. Restricted sites to reach, lack of working space add: 3 % of labor & material cost value. Shortage of subcontractors at site location, add: 10 % on specific.	Man Month Man Month Man Month Man Month Man Month Month Sqrn % Job Value % Job Value Man Year Man Month % -years Percent	0.650% 0.150% 1.500% 10.000% 3.000%	9,000		45,000,00 45,000,00	lues 0	0	15 35 36 0 45,000,000 45,000,000	112,500 292,501 67,501
010400-0300 010400-0500 010400-0600 010400-0600 010400-0700 10420-0100 010420-0200 010420-0300 010420-0500 10440-0100 010440-0300 010440-0300 010440-0300	Doctor, "general practice" in remote sites First aid expenses average Medicine consumables for remote sites Sewer, Septic tank(s) contents removal, all campuses & construction area pits. Assumed 0.15 cum daily per person. Progressive site clean-up, Based on site area assume monthly at 0.028 Hour/SQM. Consider actual cleaning area equals to uncovered site area. INSURANCE Builders all risk type insurance, percent of contract value. Builders equipment insurance, percent of total on-site equip. value Builders risk standard Insurance, percent of contract value. Employees Medical insurance, See Manpower OH costs: Div. 010058 Employees social security insurance, See manpower OH costs: Div. 010058 JOB CONDITIONS & PRICE ESCALATION: Escalation to mid - point of construction for jobs over than 2 years, consider 1.5 % annually of the total direct cost every extra year. Labor shortage at site location, add: 10 % to labor cost value. Restricted sites to reach, lack of working space add: 3 % of labor & material cost value. Shortage of subcontractors at site location, add: 10 % on specific subcontracts.	Man Month Man Month Man Month Man Month Man Month Month Sqm % Job Value % Job Value Man Year Man Month % -years Percent	0.650% 0.150% 1.500%	9,000		45,000,00 45,000,00	lues 0	0	15 35 36 0 45,000,000 45,000,000	112,500 292,500 67,500
010400-0300 010400-0500 010400-0600 010400-0600 010400-0700 110420 010420-0100 010420-0200 010420-0500 110440-0100 010440-0300 010440-0300 010440-0300 010440-0400	Doctor, "general practice" in remote sites First aid expenses average Medicine consumables for remote sites Sewer, Septic tank(s) contents removal, all campuses & construction area pits. Assumed 0.15 cum daily per person. Progressive site clean-up, Based on site area assume monthly at 0.028 Hour/SQM. Consider actual cleaning area equals to uncovered site area. INSURANCE Builders all risk type insurance, percent of contract value. Builders equipment insurance, percent of total on-site equip. value Builders risk standard Insurance, percent of contract value. Employees Medical insurance, See Manpower OH costs: Div. 010058 Employees social security insurance, See manpower OH costs: Div. 010058 JOB CONDITIONS & PRICE ESCALATION: Escalation to mid - point of construction for jobs over than 2 years, consider 1.5 % annualy of the total direct cost every extra year. Labor shortage at site location, add: 10 % to labor cost value. Restricted sites to reach, lack of working space add: 3 % of labor & material cost value. Shortage of subcontractors at site location, add: 10 % on specific.	Man Month Man Month Man Month Man Month Man Month Month Sqm % Job Value % Job Value Man Year Man Month % -years Percent	0.650% 0.150% 1.500% 10.000% 3.000%	9,000		45,000,00 45,000,00	lues 0	0	15 35 36 0 45,000,000 45,000,000	112,500 292,500 67,500

CSI			TO ANN CASES OF THE PARTY OF TH	UNIT	%SALARY	Marian All Philippens	UNIT	UNIT EQ.	TOTAL	TOTAL
CODE	ITEM DESCRIPTION	UNIT	QUNTITY	SALARY	OVERHEA D	MATERIAL COST	COST	COST	COST	COST
	TABLE FOR CALCULATION OF OVERTIME									
	COMPLETION TIME	CONTRACT	MONTHS OVERTIME	9,0	TOTAL %					
			0 4.00	7.50%	0.3	P.			-	
		36 3	0 6.00	0.05	0.3216					
		10 3	6 4.00	4.17%	0.1668					
			0 5.00	3.75%	0.1875					
010560	OVERHEAD COSTS LABOR	₹:						,	,	
010560-0100	Basic Salary	1%	40.830%							
010560-0200	Wages:	9,0	68.000%							
010560-0300	Skilled Laborer average overhead costs ,housing not included, percent of Basic Wages.	9/0	44 450%							
010560-0400	Special Skilled worker overhead costs, ahousing not included, percent Of Basic Wages	%	38.350%		0.001106					
PERSONAL PROPERTY.	For staff & labor Housing See DIV. 015									
010570	GEN. CONTRACTOR OVERHEAD ON SUBCONT, PRICE:								110-11-11-11-11-11-11-11-11-11-11-11-11-	
010570-1000	Overhead on subcontractors price	%	15.000%				5,000,000		5,000,000	750,0
010580	UNSEEN EXPENSES:									
19586-0100	Site unseen overhead expenses such as mail, express mail, E-mail, work delays	¢/o	3.000%			45,000,000			45,000,000	1,350,0
10590	PROFIT: Depending on Project size									
1590-0100	General contractor profit on subcontractors prices	9/0	10.000%			5,000,000			5,000,000	500,0
1590-0200	General contractor profit Minimum of project total	0/0	10.000%			40,000,000			40,000,000	4,000,0
1590-0300	General contractor profit Average of project total	o,	15.000%			40,000,000			40.000.000	6,000.0
1590-0400	General contractor profit Maximum of project total	n/6	20.000%			40,000,000			40,000,000	8,000.0
10600	BONDS & GURANTEES:	T						_		
10620	PERFORMANCE BONDS:	ASSUME 1.25	% OF JOB DIE	ECT COST	FOR FINANC	ING CHARGE	S & GUARAN	TEES		
010620-0100	Bird Bond, at 0.0001 of contract value monthly. Example; co value 45 million & bond duration for 8 months									
010620-0200	Financing charges, at 0.015% percent per month for every allowed one million overdraft. Example: contractor overdraft 4.5 million, construction period 30 months, finance charges will be									
010620-0220	Financing charges, material letter of credits, at 0.9 % of contract value									
010620-0400	Performance bond									
10640	GURANTEES:									
010640-0300	Final handover gurantee bond, percent of bond value				-		-			-
10700	PERMITS & UTILITY FEES & TAXES:		1							
10720	PERMITS:					0.00010				
010720-0100	City permit fees if applicable	SQM	40 7. 7		192.7	1 08 - " L	- 1-4-2/4-2-1	7-1-Y-17 A	107 E W	75 ·
10740	UTILITY CONNECTION FEES:	N. CAMI	25,1765		2.29-0.54-1.0	100 per		esdin ilia		*
010070-0204	Electrical connection fees if applicable	KVA	1					150	150	
~ 1001010000000000000000000000000000000		133.55.5	1					100	1,000	
Service Control of Street	For high voltage SCECO installed equipment, " if Applicable" Add	KVA				1.000			1,000	Severyor
010070-0220	For high voltage SCECO installed equipment, " if Applicable" Add	KVA	J _E , — —		ala diced	1,000		17000001571	MARK TO THE	
010070-0220 0 10070-0300	Water & sewer connection fees if applicable	KVA	Ar		7.0	1,000	5422 B		7 165%	44.4
010070-0220 010070-0300 10760	Water & sewer connection fees if applicable TAXES:	CUM :	j	* **		15.34	342 3			
010070-0220 010070-0300 10760 010760-0100	Water & sewer connection fees if applicable TAXES: Taxes for foreign contractors. Percent of Contract Value Taxes for joint ventures. Percent of Contract Value pending JV structure.	CUM Percent	11.250%			45,000,000	\$400 E		45,000,000	5.062.50
010070-0220 010070-0300 10760 010760-0100 010760-0200	Water & sewer connection fees if applicable TAXES: Taxes for foreign contractors. Percent of Contract Value Taxes for joint ventures. Percent of Contract Value pending JV structure. Example 60% forein, 40% local	CUM :	6.750%			45,000,000 45,000,000	307 37	341-341-341-341-341-341-341-341-341-341-	45,000,000 45,000,000	5,062,50
010070-0220 010070-0300 10760 010760-0100 010760-0200	Water & sewer connection fees if applicable TAXES: Taxes for foreign contractors. Percent of Contract Value Taxes for joint ventures. Percent of Contract Value pending JV structure. Example 60% forein, 40% local Zakat for local contractors; See DIV, 010046 Main Office Overhead.	CUM Percent	100000000000000000000000000000000000000	7		45,000,000	34P 4	. 1 (34) V	45,000,000	5,062.50 3,037,50 675,00
010070-0220 010070-0300 10760 010760-0100 010760-0200 010760-0300 10800	Water & sewer connection fees if applicable TAXES: Taxes for foreign contractors. Percent of Contract Value Taxes for joint wentures. Percent of Contract Value pending JV structure. Example 60% forein, 40% local Zakat for local contractors; See DIV, 010046 Main Office Overhead. SUBMITTALS, PHOTOGRAPHS:	CUM Percent	6.750%			45,000,000 45,000,000	202	- 144 - 14 - 14 - 14 - 14 - 14 - 14 - 1	45,000,000 45,000,000	5,062.50 3,037,50
010070-0220 010070-0300 10760 010760-0100 010760-0200 010760-0300 10800	Water & sewer connection fees if applicable TAXES: Taxes for foreign contractors. Percent of Contract Value Taxes for joint ventures. Percent of Contract Value pending JV structure. Example 60% forein, 40% local Zakat for local contractors, See DIV, 010046 Main Office Overhead. SUBMITTALS, PHOTOGRAPHS: SUBMITTALS:	CUM Percent	6.750%	7.00		45,000,000 45,000,000	3027 327	194 34 V	45,000,000 45,000,000	5,062,50
010070-0220 010070-0300 10760 010760-0100 010760-0200 010760-0300 10800 010620-0100	Water & sewer connection fees if applicable TAXES: Taxes for foreign contractors. Percent of Contract Value Taxes for joint ventures. Percent of Contract Value pending JV structure. Example 60% forein, 40% local Zakat for local contractors, See DIV, 010045 Main Office Overhead. SUBMITTALS, PHOTOGRAPHS: SUBMITTALS: Shopdrawings & material Submittals, See Div. 010116	Percent Percent	6.750%	36-1		45,000,000 45,000,000	307 32	491	45,000,000 45,000,000 45,000,000	5,062,50
010070-0220 010070-0300 10760 010760-0100 010760-0300 10800 10820 010820-0100 010820-0200	Water & sewer connection fees if applicable TAXES: Taxes for foreign contractors. Percent of Contract Value Taxes for joint ventures. Percent of Contract Value pending JV structure. Example 60% forein, 40% local Zakat, for local contractors; See DIV, 010046 Main Office Overhead. SUBMITTALS, PHOTOGRAPHS: SUBMITTALS: Shopdrawings & material Submittals, See Div, 010116 Site area survey, if required, at 150 sriper 1000 sgm of site area	Percent Percent SOM	6.750%			45,000,000 45,000,000		c	45,000,000 45,000,000	5,062,50
010070-0220 010070-0300 10760 010760-0100 010760-0200 010760-0300 10800 010820-0100 010820-0100 010820-0200 010820-0300	Water & sewer connection fees if applicable TAXES: Taxes for foreign contractors. Percent of Contract Value Taxes for joint ventures. Percent of Contract Value pending JV structure. Example 60% forein, 40% local Zakat, for local contractors; See DIV, 010046 Main Office Overhead. SUBMITTALS, PHOTOGRAPHS: SUBMITTALS: Shopdrawings & material Submittals, See Div. 010116 Site area survey; if required, at 150 sr per 1000 sgm of site area Site soil testing, if required, See also DIV, 020120 - Site works	Percent Percent SOM Bore	6.750%			45,000,000 45,000,000		c	45,000,000 45,000,000 45,000,000	5,062,50
010070-0320 010070-0300 10760 010760-0100 010760-0200 010760-0300 10800 10820-0100 010820-0100 010820-0200 010820-0400 010820-0400	Water & sewer connection fees if applicable TAXES: Taxes for foreign contractors. Percent of Contract Value Taxes for joint ventures. Percent of Contract Value pending JV structure. Example 60% forein, 40% local Zakat for local contractors; See DIV, 010046 Main Office Overhead. SUBMITTALS, PHOTOGRAPHS: SUBMITTALS: Shopdrawings & material Submittals; See Div. 010116 Site area survey; if required, at 150 sr per 1000 sqm of site area Site soil testing, if required, See also DIV. 020120 - Site works Site topography survey & property line survey	Percent Percent SOM	6.750%			45,000,000 45,000,000		c 0.85	45,000,000 45,000,000 45,000,000	5,062,50
010070-0320 010070-0300 10760 010760-0100 010760-0200 010760-0300 10800 10820-0100 010820-0100 010820-0200 010820-0400 010820-0400	Water & sewer connection fees if applicable TAXES: Taxes for foreign contractors. Percent of Contract Value Taxes for joint ventures. Percent of Contract Value pending JV structure. Example 60% forein, 40% local Zakat for local contractors, See DIV, 010046 Main Office Overhead. SUBMITTALS, PHOTOGRAPHS: SUBMITTALS: Shopdrawings & material Submittals, See Div. 010116 Site area survey, if required, at 150 sr per 1000 sgm of site area Site soil testing, if required, See also DIV. 020120 - Site works Site topography survey & property line survey PHOTOGRAPHS	Percent Percent SOM Bore	6.750%			45,000,000 45,000,000			45,000,000 45,000,000 45,000,000	5,062.50 3,037,50
010070-0320 010070-0300 10760 010760-0100 010760-0200 010760-0300 10820 010820-0100 010820-0200 010820-0400 0840 010840-0500	Water & sewer connection fees if applicable TAXES: Taxes for foreign contractors. Percent of Contract Value Taxes for joint ventures. Percent of Contract Value pending JV structure. Example 60% forein, 40% local Zakat for local contractors; See DIV, 010046 Main Office Overhead. SUBMITTALS, PHOTOGRAPHS: SUBMITTALS: Shopdrawings & material Submittals; See Div. 010116 Site area survey; if required, at 150 sr per 1000 sqm of site area Site soil testing, if required, See also DIV. 020120 - Site works Site topography survey & property line survey	Percent Percent SOM Bore	6.750%			45,000,000 45,000,000			45,000,000 45,000,000 45,000,000	5,062.50 3,037,50

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CSI	ITEM DESCRIPTION	UNIT	QUNTITY	UNIT SALARY	% SALARY OVERHEA D	UNIT MATER COST	AL	UNIT LABOR COST	UNIT EQ.	TOTAL UNIT COST	TOTAL
10905	SITE MANAGMENT:										
010905-010	Construction managment, other than contractor staff if required. In this case ocntractor managment staff Div. 010112 shall be adjusted accordingly, Minimum 5% of contract value.	Percent	5.000%			175,000	000,			175,000,000	8,750,000
010905-0120	Construction managment, other than contractor staff if required. In this case contractor managment staff Div. 010112 shall be adjusted accordingly. Maximum 7% of contract value	Percent	7.000%			45,000	,000			45,000,000	3.150,000
010905-0100	Contractor Management Staff, See DIV. 010112										-
010905-0300	project planning managment, if outside contractor staff.at 0.075 % of cotract value	Percent Month	0.075%			45,000	,000			45,000,000	33,750
010925	TESTING:										
010925-0200	Sample testing at site, See DIV. 010112										
010925-0220	Averge sample testing, building trades at site and in outside laboratory, at 0.55 % of contract value	Percent	0.550%			45,000	,000			45,000,000	247,500
010925-0300	Sample testing Outside Laboratory within city limits. Average building materials.	Test						350		350	58.1
010925-0300	materials	Test						400		400	6
010945	FACTORY INSPECTION & TESTING , OUTSIDE KINGDOM:										
010945-0400	Consultan/Jowner, attending factory test,outside Kingdom, priced according to number of visits & country of destination. Example Owner Repr., Engineer & contractor representative for 5 days to USA, first class travel. Assume for this trip 15 day trip.	Day Trip	15.00			6	000			6,000	90,000
010945-0500	Foreign expertise testing, coming from outside the kingdom, including presidency & travel. Example: From USA; travel J class, for 3 days visit, assume travel time days.	Day Trip	3.00			13	800,			13,008	39,024
010965	FACTORY INSPECTION & TESTING , IN KINGDOM:		0.06				, it				
011100	INDIRECT RUNNING OVERHEAD EXPENSES:										
011205	CONTRACTOR MAIN OFFICE OH EXPENSES:										
011205-0100	Accounting/Legal & data processing, average percent of annual TO	% Of TO	0.85%								
011205-0200	Cars for staff, maintenance, fuel & insurance, average percent of annual TO	% Of TO	0.30%								
raneralen sak A	Engineering & planning department, Salaries, percent of annual TO.	% Of TO	2.50%								
			0.50%								
	Estimation department, Salaries, average percent of annual TO General Manager Office Salaries, minimum 3000000 SR	% Of TO	0.50%								
Cartinopal Cartinopal	General Manager Office Salaries, maximum 7500000 SR.	% Of TO					Н				
SCHOOL SECTION	Procurement department, Salaries, average percent of annual TO	% O! TO	0.50%				Н				
VALUE AND DESCRIPTION OF THE PARTY OF THE PA	Publicity expenses, minimum 50000 SR	LOT	W.W. 7				Н				
	Publicity expenses, maximum 200000 SR	LOT	10					-	-		
1,1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Recruitment & igama expenses, staff.	% Of TO	0.05%				- 11	A STATE OF THE PARTY OF THE PAR			
	Rental & utilities, mains office, minimum 150000 SR.	% Of TO					Н				
	Rental & utilities, mains office, minimum 750000 SR.	% O! TO	750,000								
	Staff medical insurance, average percent of annual TO	% Of TO	0.40%			-					7
TO ALLOS OF THE PARTY OF THE PA	Staff incentives & profit Sharing, average percent of annual TO	% Of TO	0.70%								
The state of the s	Telephone, Fax & telex bills, average percent of annual TO	% Of TO	0.25%			-					
	Travel Expenses, staff, average percent of annual TO	% O! TO	0.35%								
	Zakat expenses, average percent of annual TO	% Of TO	0.02%				П				
011205-1500	Bute of thumb & using above % main office expenses for less than SM SD	% Of TO	15.50%					11 - 1			
011205-1600	Rule of thumb & using above %, main office expenses from 6M To 10M SR annual turnover	% Of TO	12.55%								
011205-1700	Rule of thumb & using above &, main office expenses from 15M to 30M SR annual turnover	% Of TO	8.90%							- 4	
011205-1800	Rule of thumb & using above %, main office expenses from 35M to 50M SR annual TO	% OI TO	8.00%					4			
011205-1900	Rule of thumb & using above %, main office expenses from 65M to 80M SR annual TO	% Of TO	7.50%		1.1						
011205-2000	Rule of thumb & using above %, main office expenses over 85M SR annual turnover	% Of TO	7.25%		=						
115	MOBILIZATION			1331	412.71			2,6,2/			- Think
15100	CARS:				· · · · · ·		-			т	
01500-0100	Consultant cars, deluxe, Depreciated cost,5 years, Example for 30 month construction period.	Man Car Month							30,000	30,000	
227500000000000000000000000000000000000	Contractor cars, deluxe, Depreciated cost,5 years	Man Car Month					H		30,000	30,000	
01500-0400	Contractor cars, Medium, Depreciated cost,5 years.	Man Car Month							22,500	22,500	•

CODE	ITEM DESCRIPTION	דואט	QUNTITY	UNIT	%SALARY OVERHEA	UNIT MATERIAL	UNIT LABOR	UNIT EQ.	TOTAL	TOTAL
				DALAIT	D	COST	COST	2322	COST	0031
	Contractor cars, Small, Depreciated cost,5 years	Man Car Month						15,000	15,000	
15200	Contractor workshop & plants cars, Pick-up, Depreciated cost,5 years TEMPORARY CONSTRUCTIONS:	Man Car Month			kii			26,250	26,250	
15205	ACCESS ROAD & RAMPS:									
	Access road, including clearing,100 mm compaction & 200 mm fill.	SQM					2	4	5	
71.00 market					100					- 97
D15200-0300	Access road, including clearing 100 mm compaction \$ 200 mm selected fill. Access road, including clearing 100 mm compaction \$ 200 mm fill with 1.5	SOM				6	2	4	11	*
CONTRACTOR OF COLUMN	Access road including clearing 100 ppr compacting 8 200 ppp fill with a 5	53711				9	2	4	15	-
015200-0500	Kg prime asphalt coat, 0.25 kg/m2 asphalt tack coat & 50 mm asphalt	SQM				40	3	5	48	0
Contract Contract	Access road, periodic maintenance.	Month SQM				2	1	2	6	
	Dirt surface parking, including clearing & 200 mm fill layer	Car							300	
015200-0800	The state of the s	Month Car							252	
	Sheltered dirt parking space	Car							2,300	
	Sheltered asphalt parking space	Car							2,880	
	Access ramp, concrete	SQM						-	60	
15210	Access ramp, gravel fill, 100 mm deep.	SQM					-		8	•
015210-0100	CONSULTING/OWNER ENGINEER SITE OFFICES: Offices, Masonry & concrete deck, based on 15 SQM per person of the staff including meeting rooms & office support area. 20 % material salvage value	Man Month				258	94		352	
015210-0200	Offices, Masonry & corrugated deck, based on 15 SQM per person of the staff, including meeting rooms & office support area. 25 % material salvage	Man Month		111111111111111111111111111111111111111		219	73		292	
015210-0300	value: Offices, Prefabricated units, 15 SQM per person including meeting	Man Month				200	21	5	226	
015210-0400	rooms, offices & support areas. Depreciated at 60 months. Office computer network. Depreciated cost at 36 months, Monthly	Month station				135	5	0	140	
015210-0500	Office equipment, Copiers, typewritersetc, Depreciated cost at 36 months, Monthly	Month				1,667	1	1	1,668	9
015210.0600	Office software, depreciated cost at 35 months	Mante							4.050	
	Office standard furniture per person. Depreciated cost at 36 months,	Month							1,250	
015210-0700 521 5	Monthly CONSTRUCTION WORKSHOPS & PLANT DEPRECIATED COST AT	Man Month				42	1	0	43	50
5215-0100	36 MONTHS Equipment maintenance workshop, minimum of 16 SQM for jobs up to	Month				***		744	-	
	10MSR, including tools, maint, equipment & employees facilities. Equipment maintenance workshop, 1 SQM/1 MSR for jobs 15MSR to 50	MQDH)				142	56	135	333	\$1 1001-00-00
	MSR, including tools, maintenance equipment, & employees facilities Example for project of 45 MSR & 36 months constr.	Month SQM MS	1,620.00			10	4	18	31	50,703
015215-0300	Equipment maintenance workshop, 0.75 SQM/1 MSR for jobs 65MSR to 85 MSR, including tools, maintenance equipment, & employees facilities Example for project of 72 MSR.	Month SQM MSR				10	4	18	31	•
215215-0400	Equipment maintenance workshop, 0.65 SQM/1MSR for job over 100 MSR including tools, maintenance equipment & employees facilities., Example contract value 225 MSR	Month SQM MSR				10	4	18	31	i de la
	Concrete Batching plant, remote sites, Assume 0.025 SQM per GSQM of build - up area. Eq. cost depreciated for 72 months	Month SQM MS	67,500			1	D	6	7	498,825
15215-0600	Construction workshop, for emergency generators at 20 sqm,generators shelter included with generators depreciated at 35 months	Month SQM	20			4	3	73	80	1,603
15215-0700	Joinery & steel workshop, minimumm 40 m2, or 1.5 m2 per 1000 m2 build up area, plus 60 m2 open area. Example For 36 months construction period	Month SQM GS	1,440			4	3	10	18	25,397
15215-0800	Masonry Plant For Remote sites, 0.05 sgm open area per GSQM of build- up area. Example: Aproject of 75,000 m2 will regire 3750 m2 of open area & closed area. Eq. cost depriciated for 72 months.	Month SQM GS	135,000	64 ii = 310 a		1	0	3	5	628,425
	Duct workshop, minimumm 20 m2, or 1 m2 per 1000 m2 build up area, plus 60 m2 open area	Month SQM GSQ	м	=		6	1	17	23	(40)
5220	CONTRACTOR CAMPUSES ON-SITE/OF-SITE									
220-0100	On-site labor camp, 6 SOM per person, including support area, masonry and concrete deck.depreciated at 36 months with 20% salvage value on material	Man Month				94	Ro		152	9
220-0200	On-site labor camp, 6 SOM per person, including support area, masonry and corrugated deck, depreciated at 36 months with 25 % salvage value on material	Man Month				75			2.1	5 1
220-0300	On-site labor camp.8 SOM per person, including support area, prefabricatedunits, including support area. Depreciated at 60	Man Month				107	7	7	115	
	months Monthly. Labor camp furniture; depreciated cost at 36 months, Monthly	Man Month				21	0	0	21	-

CSI	TEM DESCRIPTION	UNIT	QUNTITY	UNIT SALARY	%SALARY OVERHEA D	UNIT MATERI COST	AL	UNIT LABOR COST	UNIT EQ.	TOTAL UNIT COST	TOTAL
015220-0500	On-site skilled labor camp, 8 SQM per person, including support area, masonry and concrete deck, depreciated at 35 months with 20% salvage value on material.	Man Month					124	50		174	ě
015220-0600	On-site skilled labor camp, 8 SQM per person, including support area, masonry and corrugated deck, depreciated at 36 months with 25% salvage value on material.	Man Month				***	100	39		139	2
015220-0700	On-site skilled labor camp,10 SQM per person, including support area, prefabricated units, including support area. Depreciated at 60 months. Monthly.	Man Month					133	8	2	143	
015220-0800	Skilled labor camp furniture, depreciated at 36 months, Monthly.	Man Month	1			-	25	D	0	26	
015220-0900	On-site staff camp, 14 SQM per person, including support area, kitchen, dining baths, sitting, Masonry and concrete deck, depreciated at 35 months with 20% salvage value on material.	Man Month				3	229	88		316	
015220-1000	On-site staff camp, 14 SQM per person, including support area, masonry and corrugated deck, depreciated at 35 months with 25 % salvage value on material.	Man Month					190	68		258	100
15220-1100	On-site staff camp,18 SOM per person, including support area, prefabricated units, including support area. Depreciated cost, Monthly.	Man Month					240	15	3	258	
152201200	Staff camp furniture, depreciated cost, Monthly,	Man Month					38	0	0	38	1.7
1522013400	On-site senior staff camp, 28 SQM per person, including support area, masonry and concrete deck, depreciated at 36 months with 20% salvage value on material.	Man Month					482	175		657	%
15220-1400	On-site senior staff camp, 28 SQM per person, including support area, masonry and corrugated deck, depreciated at 36 months with 25% salvage value on material.	Man Month					108	136		544	14
15220-1500	On-site senior staff camp,30 SQM per person, including support area, prefabricated units, including support area. Depreciated cost, Monthly.	Man Month				4	100	25	5	430	æ
15220-1600	Staff camp furniture, depreciated cost, Monthly.	Man Month					42	0	0	42	
15220-1700	Of-site labor campus, for land rent see DIV. 010340										
15220-1800	For utilities installation to Contractor housing campus See DIV. 015290										
15220-1900	For Running overhead Expenses, Contractor housing campus See DIV. 010340										
15225	CONTRACTOR CAMPUS SUPPORTING FACILITIES:						-				444437434
015225-0100	General public toilets over the site, 0.15 SQM per person, including pit.Example site with 800 persons for 36 months construction period.	Man Month	28,800.00				2	1		3	80,928
015225-0200	average 40 m2,including utilities & furnished, depreciated cost at 36 months.	Month SQM	1,440			3	23	6	9	38	54,490
015225-0300	Pray area"mosque",open shettered,everage 0.5 SQM per person, at 40% prayers, including utilities Example for 400 persons site, 36 months	Man Month	14,400		1440		4	1	. 0	5	68,270
015225-0400	Recreation area, covered, sports playground, 0.06 SQM/person. Example: For over 500 labors campuses & 36 months construction	Man Month	18,000	64			1	1	0	2	35,280
015225-0500	Recreation area,open, sports playground, 0.25 SQM/person. Example. For over 500 labors campuses & 36 months construction.	Man Month	18,000	15			0	0	0	1	9,774
015225-0600	Character and area of Company at a service and a service a	Month SQM	3,600				8	2		10	34,499
015225-0620	Storage,covered,Cement storage area,minimum of 200 SQM for jobs more	Month SQM				-	8	2		10	20
015225-0640	than 55 MSR & less than 90 M SR. Storage,covered,Cement storage area,minimum of 300 SQM for jobs more	Month SQM					8	2	\rightarrow	9.58	
015225-0700	than 100 MSR. Storage area.covered,minimum of 30 SOM for jobs less than 10 M SR.	Month SQM					8	2		10.55	
- USAIRS							+			1000000	
when the sound	Storage area, covered, average of 1 SQM /1 M SR for jobs Up to 100 M SR. Storage area, covered, average of 0.65 SQM /1 M SR for jobs over 125 M						8	2		10.55	1,7/
015225-0740	SR	Month SQM MS	R		= 1		7	2		8.97	2.398
015225-0900	Storage laydown open Area; Fenced, 100 SQM minimum for jobs less than 10 M SR.Material cost depreciated.	Month SQM	3,600				1	0		0.94	3,384
015225-1000	Storage laydown open Area; Fenced, 10 SQM/1MSR for jobs up to 100 MSR	Month SQM MS	9	- 3			1	0		0.94	
015225-1100	Storage laydown open Area; Fenced, 8 SQM/1MSR for jobs over 125 MSR	Month SQM MS	3				1	0		0.94	348
015225-1200	Storage Special, Covered, For jobs over100 MSR, or speciality jobs, average 0.40 M2/MSR Example for 125 million project at 36 months construction period guntity will be.	Month SQM MS	1,800			al .				0.94	
015225-1220	Storage, Special for furniture, Covered, For speciality jobs, Furnished, average 2.00 SQM/1MSR	Month SQM MSF	3							0.94	4
015225-1300	Stores offices, average of 0.15 SQM /1 MSR, jobs up to 100 MSR,	Month SQM MSF	,				4	5		18	150

CODE	ITEM DESCRIPTION	UNIT	QUNTITY	UNIT	% SALARY OVERHEA D	UNIT MATERIAL COST	LABOR COST	UNIT EQ. COST	TOTAL UNIT COST	TOTAL
015230	CONTRACTOR SITE OFFICES:	New Modern Control of the Control		MIREIEM.	inn - III			Library meno		
015230-0100	Offices based on 15 SQM per person of the staff, including meeting rooms & office support area. Masonry & concrete Deck	Man Month				258	94		352	185
015239-0200	Offices based on 15 SOM per person of the staff, including meeting rooms & office support area. Masonry & corrugated Deck	Man Month				219	73		292	36
015230-0300	Offices, Prefabricated units.12 SOM per person including meeting rooms & offices support areas. Depreciated cost, monthly	Man Month				267	35	8	310	ñ
015230-0400	Office computer network. Depreciated cost, Monthly	Month station				135	6	0	140	*
015230-0500	Office equipment, Copiers, Drawing copiers,etc,Depriciated cost, Monthly	Month				3,750	4	1	3,755	*
015230-0600	Office software	Month							#REFI	#REF!
015230-0700	Office standard furniture per person. Depreciated cost, Monthly	Month person				33	0	0	34	
015235	FENCING:									
015235-0100	Barricades, barrel reflectorized	EA							200	83
015235-0200	Barricades, barrel, with flashers.	EA							325	*
Anna an exercise	Barricades, barrel, with Steady burn light.	EA							350	
	Fence, wood and corrugated steel, 2 meters high, Quantity based on lot size 25% savage material cost. Example: For a site lot area 40,000 SQM ; Perimeter Fence Approx.	LM	1,000			30	10		40	40,00
015235-0500	Fence, chain link including steel angles,2 meters high, 25 % salvage on material cost. Quantity based on lot size. Same Example Line 015235-0400	LM	1,000			45	15		60	60,00
015235-0600	Fence gate, 5m wide.	EA							1,500	
015235-0700	Fence gate, 1m wide	EA							450	
	Fence vehicle gate, with 2 manual arm reflectorized barrier	EA							2,000	
	Guard house Kiosk, masonry block	SOM		U.S. III		10	4		14	
15240	NOTICE BOARDS & SIGNS:									
015240-0100	Project Main Sign, approx. 3m x 2 m. Assume at least 3 signs per site unless hown otherwise.	EA							4,200	
015240-0200	Direction & notice signs, Quantity depends on project land size. Assume as minimum requirment 5 signs, or assume 1 sign each 10000 SQM for large lot area sites. Material salvage vaue 25 %	EA							40	50
015240-0300	Traffic signs. Quantify depends on project land size, Assume minimum of 6 signs or 1 sign every 5000 m2 uncovered area of the site lot area material salvage value 25%	EA		311-2131-					69	*#
015240-0400	Warning signs, Quantity depends on project size. Assume 1 sign every 1000 m/2 of build up area and temporary facilities areas. Assume also 1 sign every					9.			125	
015250	SITE CLEANING									
15250-0100	Clearing & levelling mobilization site; per SQM of mobilization camp area	SQM				1			2	10
15260	SITE SECURITY MEASUTES:									
015260-0100	Fire extinguishers, stores, offices, campuses & construction area, depends on project size. Assume minimum of 1 every 500 SQm area.	EA							225	8
015260-0200	Water Tanker for fire fighting including operation & maintenance.	Month							6,000	- 3
015260-0300	Sand buckets, construction area, Depends on project size.	EA							75	
015260-0400	Security guards, depends on project size, minimum of 3 per site included in section 010112, Field Staff.	Man Month		550	123.59%				2	- 5
15300	TEMPORARY UTILITIES:					1				
015300-0100	temporary emergecy generators depends on site power consumption needs. Assume 0.75 KW per person, To cover all site temporary facilities loads & spare power depriciated monthly. Example a site of 800 persons, for 30 months construction period regires:	Man Month KW	18,000			16	20	2	38	
015300-0200	Temporary electrical distribution, depends on site area & distributed power based on 0.75 KW per Person. For site areas less than 100,000 SQM, 30 % Material salvage value. For same Example Line 015300-0100	Man KW	600			315	100		415	
U13300-U220	Temporary electrical distribution, depends on site area & distributed power 'based on 0.75 KW per Person. For site areas more than 100,000 m2 & less than 300,000 m2. Material cost depreciated For same Example Line 015300	Man KW	600			455	150		605	
015300-0240	Temporary electrical distribution, depends on site area & distributed power based on 0.75 KW per Person. For site areas more than 400,000 m2. Material cost depreciated. For same Example Line 015300-0100	Man KW	600			578	180		769	
015300-0300	Temporary septic tank, per person of manpower (MP) force, assume 0.1 Cum per person, Capacity based on 15 days storage, Example for 400 persons tank capacity for 15 days will be 80m3.	CUM Person	600			160	50		16.	
015300-0400	Temporary sewer lines, per CUM Discharge, and mobilization camp site, for campuses area site up to 5000 m2 & 200 persons approx.	CUM Person	300						950	

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CSI	ITEM DESCRIPTION	UNIT	QUNTITY	UNIT	%SALARY OVERHEA D	MATERIA COST		UNIT LABOR COST	UNIT EQ. COST	TOTAL UNIT COST	COST
015300-0420	Temporary sewer lines, per CUM Discharge and mobilization camp site, for campuses area site more Than 5000 m2 & as example 500 persons approx.	CUM Person	750							521	
015300-0500	Temporary water storage tanks for Campus, assume 0.15 Cum per day per person of MP force, for 2 days storage, Example for 300 person campuses	CUM Person	90				265	70	20	355	
015300-0600	Temporary water lines, per CUM of Distributed water and mobilization campuses site area. Example for site area up to 5000 m2 & 200 persons.	CUM Person	60			1,4	458	365		1,823	
015300-0600	Temporary water lines, per CUM of Distributed water and mobilization campuses site area. Example for site area more than 5000 m2 & 500 persons.	CUM Person	150			1,0	050	263		1,313	
015300-0800	Temporary water storage for construction. Assume 2 CUM steel tank per 1500 SQM of build-up Area, material cost depreciated Example: required for 15,000 m2 build-up area, 10 tanks reqired	CUM GSOM	20			S	938	140		1,078	
015300-0900	GSM telephone sets for Senior contractor construction staff.	Man Month								222	
015300-1000	Temporary Telephone & fax lines including wiring, 25 % salvage value	Line								850	ä
15400	CONSRUCTION AID										
15405	SAFETY:	Gar.									
015405-0100	Safety nets,100 mm mesh with supports, average	SQM								50	0.5
015405-0500	Weather Station, average depreciated cost with 30 % material salvage, monthly	Month	1							408	408
15440	SCAFFOLDING: 30% MATERIAL SALVAGE VALUE					-					
015440-0200	Scaffolding exterior wall, steel,tubular, depreciated SQM cost. Quantity depends on area of exterior walls & building Shape & height. Complete with framing.catwalks.bridges, ladders	SQM Month					в	2		10	92
015440-0300	Scatfolding interior wall up to 5 meter high, tubular steel, including planks, supports,base & accessories	SQM Month					5	1		6	\$
015440-0320	Scatfolding, Hand winch for masons, 30 meter long, 9 meter high	EA					1			583	3.
	Staging swing, 225 Kg capacity, 0.6 m wide, 7 m long, hand operated, 20 m steel cable type, depreciated cost Example erected for 10 months	Month	10			3	150	50	60	460	4,600
015440-0500	Staging swing sightweight, 100 Kg capacity, 0.6 m wide, 7 m long, hand operatied, 60 m steel cable type, depreciated cost. Example erected for 18 months.	Month	18			2	82	22	27	331	5,955
015440-0600	Staging swing agrivengris, not by capacity, u.e.m wide, rimong, powered electric operation, 90 m steel cable type, depreciated cost. Example erected	Month	24				75	33	50	958	23,000

015500	CONSTRUCTION EQUIPMENT.								
015520	CONSTRUCTION EQUIP. RENTAL OR OWN								
015520-0100	Construction equipment rental See Div. 016406 thru 016490								
015520-0200	Construction equipment owned, for depreciated value See Div.016406 thru 016490								
015535	MOBILIZ/DEMOBILIZ. CONTRACTOR OWNED EQUIPMENT:	Unit	Quantity	Crew Structu	re		1		
015535-0100	Transportation within city limit approx. 120 km round trip. small building const. jobs up to 20 million SR	Day	4	1,000 Driver 1,000 Equip Operator		175	1,743	1,918	7,672
015535-0200	Transportation within city limit approx. 120 km round trip. building const. jobs from 25 million SR to 80 Million SR	Day	7			175	1,743	1,918	13,426
015535-0300	Transportation within city limit approx. 120 km round trip. building const. jobs from 100 million SR to 175 Million SR	Day	11			175	1,743	1,918	21,097
015535-0400	Transportation within city limit approx. 120 km round trip building const. jobs over 200 million SR	Day	15			175	1,743	1,918	28,769
015535-0500	Transportation outside city limit approx. 1000 km round trip small building const. jobs up to 20 million SR	Day	7			175	1,743	1,918	13,426
015538-0600	Transportation outside city limit approx. 1000 km round trip. building const. jobs from 25 million SR to 80 Million SR	Day	10			175	1,743	1,918	19,179
015535-0700	Transportation outside city limit approx. 1000 km round trip. building const. jobs from 100 million SR to 175 Million SR	Day	14			175	1,743	1,918	26,851
015535-0600	Transportation outside city limit approx. 1000 km round trip. building const. jobs over 200 million SR	Day	18			175	1,743	1,918	34,523
015535-0900	small building const, jobs up to 20 million SR	Day	9			175	1,743	1,918	17,261
015535-1000	Transportation outside city limit approx. 1800 km round trip. building const. jobs from 25 million SR to 80 Million SR	Day	12			175	1,743	1,918	23.015
015535-1100	Transportation outside city limit approx. 1800 km round trip building const. jobs from 100 million SR to 175 Million SR	Day	16			175	1,743	1,918	30,687
016504-1200	Transportation outside city limit approx. 1800 km round trip. building const. jobs over 200 million SR	Day	- 20			175	1,743	1,918	38,359
15565	MOBILIZATION/DEMOBILIZATION RENTED EQUIPMENT:								
015565-0100	For mobilization/demobilization rented equipment; see Div. 016406 thru 016490 cost: built- in within the monthly rental rate for each equipment.	Day							

TOTAL LOADED SALARY INCLUDES NON-WORKING DAYS PAID, SUCH AS HOLLIDAYS, FRIDAYS, VACATION.. ETC. PERCENT = 70°. TOTAL ACTUAL ANN 287

100.00	COSTS IN SAUDI RIALS:	AVERAGE	OVER			LODED COS	AVERAGE	BASIC SAL	-	- CHINATE NA	T Delications	RANCE		COMPE		
DE	CRAFTSMAN	MONTHLY	AVG %	% OF BASIC	LODED	ANNUAL	BASIC SAL.	MONTHLY	HOUSING	LIVING	MEDICAL	GOSI	TICKETS	LEAVE PAY	PAID VACATIO	IOA
0010:	PROJECT MANAGER LARGE OR UNIQUE PROJECTS	27,332.64	32.93%	46.94%	36 735 42	440.825.00	18,333.33	25.000 00	6,250.00		316.67	625 00	1.000.00	1,343.75	2,083.33	1
	PROJECT MANAGER MEDIUM SIZE JOBS UP TO 100	2.3223.03		49.24%	26.862.50	322,350 00		18.000.00	4,500.00		316 67	450.00	1,000.00	979.17	1,500.00	19
	PROJECT MANAGER, PROJECTS LESS THAN 50 M			53,33%	18.490.00	220,800.00		12,000.00	3,000.00	7000	316.57	300.00	1,000.00	866.67	1,000,00	-
	PROJECT MANAGER SECRETARY	-		20.655	5.00	RATHER OF		Service 2	-	Ť	Tie o te	1 30.00	1 24300	140.63	208.33	+
	Construction manager or superintendent, Unique &	100000000000000000000000000000000000000	ocopiese.	57,29%	3.932.29	47 187 50	2002000	2,500.00	625.00	1	79.17	62.50	77,000,000	1,063,33	() (((((((((((((((((((((((((((((((((((
	large jobs Construction manager or superintendent, jobs between	22,631.25	33.72%	48.42%	29,683.33	356,200.00	15,000.00	20,000,00	5,000 00	-	316.67	500.00	1,000.00	The state of the s	1,666.67	+
-	50 & 100 million SR			50 98%	22,631.25	271,575.00		15,000.00	3,750.00		316.67	375.00	1,000.00	B22.92	1,250.00	
	Construction manager or superintendent, jobs less than 50 million SR			55.79%	15,579.17	185,950.00		10,000.00	2,500,00	1 1	316.67	250.00	1,000.00	562.50	B33.33	
_	Field Architect. Engineer, unique & large jobs	19,340.28	34.51%	49.24%	26,862.50	322 350.00	12,666.67	18,000.00	4,500.00		315 67	450 00	1,000,00	979 17	1,500.00	
	Field Architect Engineer, jobs between 50 & 100 million			53.33%	18,400 00	220,800,00		12,000.00	3,000.00		316.67	300.00	1.000.00	556.67	1,000.00	
	Feld Architect, Engineer, jobs less than 50 million SR			59 48%	12.758.33	155,100.00		8.000.00	2,000,00	-	216.67	200.00	1,000.00	458.33	866.67	Т
	Field Civil Engineer, Unique & large jobs.	19,340.28	34.51%	49.24%	26 862 50	322,350 00	12,656.67	18,000.00	4,500.00		316.67	450 00	1,000.00	979 17	1,500.00	T
	Field CMI Engineer, jobs less than 50 millions	10,040.20	94.01%	53.33%	18,400.00	220,800.00	72,000.07	12.000.00	3.000.00		316.67	300.00	1.000.00	666.67	1,000.00	T
	Field Civil Engineer, jobs less than 50 million SR			-300	Parties and	- 107 Marie 1		- 223527	2,000.00		455	773067	1000000	458 33	566.67	+
-	Field Electrical Engineer, Unique & large Jobs			59.48%	12,758.33	153,100.00		8,000,00	1	-	316.67	200,00	1,000.00	822 92	1,250.00	H
\neg	Field Electrical Engineer Unique & large jobs	16,284.38	35.52%	50.88%	22,631,25	271,575.00	10,500.00	15,000.00	3,750.00		316.67	375.00	1,000:00	562.50	833.33	+
\rightarrow				55.79%	15,579.17	186,950.00		10,000.00	2,500.00	-	316.67	250.00	1,000.00	3333	200000	╀
-	Field Electrical Engineer, jobs less than 50 millions SR			63 73%	10,642.71	127,712.50		6,500.00	1,625.00		316 67	162 50	1,000.00	380 21	541.67	-
_	Field Industrial Engineer, Unique & large jobs Field Industrial Engineer, jobs between 50 & 100 million	17,459.72	35.09%	50.25%	24,041.67	288,500.00	11,333.33	16,000.00	4,000.00	-	316.67	400.00	1,000.00	875 00	1,333.33	-
-	SR.			54 45%	16,989 58	203,875.00		11,000.00	2,750.00		316.67	275.00	1,000.00	614.58	916 67	-
	Field industrial Engineer, jobs less than 50 millions SR			62 11%	11,347,92	136,175,00		7,000.00	1,750.00	[1]	316.67	175.00	1,000 00	405.25	583 33	L
_	Field Mechanical Engineer, Unique & large jobs.	16,284.38	35.52%	50.88%	22,631,25	271,575.00	10,500.00	15,000.00	3,750.00	17	316.67	375,00	1,000.00	822.92	1,250.00	L
	Field Mechanical Engineer, jobs less than 50 millions			55.79%	15,579 17	186,950 00		10,000.00	2,500.00	45	316.67	250.00	1,000.00	562.50	833.33	
	Feld Mechanical Engineer, jobs less than 50 million SR			63.73%	10,642.71	127,712.50		6,500.00	1,825.00	#05	316.67	162:50	1,000 00	380.21	541.67	
	Field Quantity Surveyor	2,502.78	33.41%	50 17%	7,508.33	90.100.00	1,566.67	5,000.00	1,250.00	46	79.17	125.00	250 90	270.83	415.67	
	Field Surveyor	5,342.71		52.65%	5,342.71	64,112,50		3,500.00	875.00		79:17	87:50	250.00	192.71	291.67	Т
	Suards			107.80%	1,142.92	13.715.00		550 DQ		100.00	79 17	13.75	250.00	37.50	45.83	T
	aboratory Material Testing Engineer			28//601	Devillations (Cocon Service		. montes an	2 000 00	700.00	Sept Company	Processor.		586.67	1.000.00	1
	aboratory Technicians	-		53.33%	18,400.00	220,800,00		12,000.00	3,000.00	-	316.67	300.00	1.000.00	218.75	333.33	H
-	aboratory Laborat			51.20%	6,047.92	72,575.00	-	4,000.00	1,000,00	2/18/6/16/22/1	79.17	100 00	250.00	37.50	45.B3	-
-	Plants Manager			107.80%	1,142.92	13,715.00	-	550 00		100.00	79.17	13.75	250.00	427.06	686.57	-
-	Plant, Electrical power, Operators	7		45.12%	11,689.56	140,275.00		8,000.00	2,000.00		79.17	200 00	250.D0	125.00	183.32	+
-	SAN AND AND AND AND AND AND AND AND AND A	-	-	59.51%	3,509 17	42 110 00		2,200.00	550 00	F.	79 17	55 00	250.00	7.55.55	71.000 0-01	-
	Plant. Networks Maintenance		-	62.42%	3,086.04	37,032.50		1,900.00	475 00		79.17	47.50	250.00	109.36	158.33	-
_	Plant, Water Supplies Drivers			74.90%	2 098 75	25,185.00		1,200.00	300.00	(4)	79,17	30.00	250.00	72 92	100.00	1
- 1	Stores Manager			61.35%	3,227.08	36,725.00	-	2,000.00	500,00		79 17	50.00	250.00	114.58	166.67	L
- 1	Store Keepers			70.06%	2,380.83	28.570.00		1,400.00	350.00		79.17	35.00	250.00	83.33	116.67	
	Store Drivers			74.90%	2,098.75	25,185.00		1,200,00	300.00		79 17	30.00	250.00	72.92	100.00	
- 1	Vorkshop Menager			46 12%	11,689.55	140,275,00		8,000.00	2,000.00		79 17	200 00	250.00	427.08	666,67	
1	Vorkshop Mechanic			52.65%	5,342.71	64,112.50		3,500.00	875.00	Tall	79.17	67.50	250.00	192.71	291.67	
-	Vorkshop Drivers			74.90%	2,096.75	25.185.00		1,200.00	300.00	240	79 17	30.00	250.00	72.92	100.00	
F	ROJECT MANAGER SUPPORTING STAFF															
,	ACCOUNTAINS			50.07%	6,753 13	81,037,50		4,500.00	1,125.00		79.17	112.50	250.00	244 78	375 00	
,	eccountent Aid			54.58%	4,637.50	65.850.00		8,000.00	750.00		79.17	75.00	250.00	186.67	250.00	
0	omputer Operators			52.65%	5,342.71	64,112.50		3,500.00	875.00		79.17	87.50	250.00	192.71	291.67	
	Salms Manager			500000000									VEGETA CASE	822.92	1,250.00	
-	Pattaman, shopdrawings			50 88%	22,631.25	271,575.00		15,000.00	3,750.00	· ·	316.67	375.00	1,000.00	140.63	208.33	
-	Hivers			57.29%	3,932.29	47,187.50		2,500.00	625.00		79.17	62.50	250.00	72.92	100.00	-
+		-		74.90%	2,098.75	25,185.00	-	1,200.00	300.00	-	79.17	30.00	250.00	1000000	-	-
-+	rigineer, Architect., Shopdrawings & Materials Approval			55.79%	15,579 17	186,950:00		10,000.00	2,500.00	14	316.67	250.00	1,000.00	562.50	833.33	_
-+	ngineer, Civil, Shopdrawings & Materials Approval	-		62 11%	11,347.92	136,175.00		7,000.00	1,750,00		316.67	175.00	1,000.00	406.25	583.33	_
-	rgineer, Electrical, Shopdrawings & Materials Approval rigineer, Mechanical, Shopdrawings & Materials			62 11%	11,347.92	136,175.00		7,000.00	1,750.00		316.67	175.00	1,000.00	406.25	583.33	
- 4	pprovel			62.11%	11,347.92	136,175.00		7,000.00	1,750.00		316.57	175.00	1,000.00	406.25	583.33	
E	ngineer, Planning			59 41 34	12,758.33	153,100 00		8,000.00	2,000.00		316.57	200.00	1,005.00	459.03	4H6.67	_
E	ngineer, Structural, Shopdrawings & Materials Approve			82.11%	11,347.92	136 175.00		7,000.00	1,750.00		316.67	175.00	1,000.00	406.25	583.33	_
E	xpedite:			81,35%	3,227.06	38,725.00		2,000 00	500.00		79.17	50.00	250.00	114.58	166.67	
F	te Keeper			68 13%	2,521,68	30,262.50		1,500.00	375.00		79.17	37.50	250,00	88.54	125.00	
	ffice Service, Laborers							7	370.00				375	3, 25	4, 3,	
c	NO 31 80 85 5 5 5 7 10 10 10 10 10 10 10 10 10 10 10 10 10			107.80%	1,142.92	13,715.00		550.00		100.00	79.17	13.75	250.00			-
	mayer mark Managar												No contract of	14.1		
	rocurement Manager			54.58%	4,637.50	55,650.00		3,000.00	750.00	•	79.17	75.00	250.00	14.1		
P	rocurement Manage:			54.58% 52.65%	4,637.50 5,342.71	55,650.00 64,112.50		3,000.00	750.00 875.00	•	79.17	75.00 87.50	250.00	161	120	

				CONTRAC	CTOR OWNED	EQUIPMENT	RE	NTAL
CSI CODE	EQUIPMENT DESCRIPTION:	UNIT	ату	OPERATION COST SR	EQUIPMENT DEPRECIATED COST SR/ DAY	EQUIPMENT DAILY COST INCLUDING OPERATION	COST SR PER DAY	RENTAL COST SI PER MONTH
016	CONSTRUCTION EQUIPMENT.							
016406	CONCRETE EQUIPMENT:							
016406-0200	Concrete Cart, 0.28 CUM, walking operator.			*	3.00	3.00		
016406-0300	Concrete Cart, 0.28 CUM, riding operator			4.50	35.00	39.50		
016406-0500	Concrete Core drill, electric, 25mm to 200mm bit diameter.	EA	1	2.50	48.00	50.50	100	
016406-0600	Concrete Core drill, electric, 200m to 600mm bit diameter.	EA	1	3.50	68.80	72.30	200	
16406-0700	Concrete Floor finisher, gas, riding trowel, 1.2m diameter	EA	1	7.50	25.00	32.50		
016406-0800	Concrete Floor finisher, gas, manual,4 blades, 1.2m diameter.			2.50	9.00	11.50		
16406-0900	Concrete Float, hand operated (Bull Float), 1.2 m wide.			0.50	5.50	6.00		
16406-1000	Concrete & terrazzo Grinder, floor, electric.			4.50	40.00	44.50		
16406-1200	Concrete & morter Mixer, gas, 0.28 CUM			5.00	30.00	35.00		
16406-1300	Concrete & morter Mixer, 0.45 CUM.			8.00	35.00	43.00		
16406-1400	Concrete Mixer, gas, stationary, tilt drum, 1.5 CUM			20.00	120.00	140.00		
16406-1500	Concrete Pump, truck mounted, 100 mm line, 24 m boom.			27.50	750.00	777.50	1200	
16406-1600	Concrete Pump, truck mounted, 127 mm line, 34 m boom.			35.00	900.00	935.00	1300	
16406-1700	Concrete Saw, manual, gas, 20 HP			7.00	45.00	52.00		
16406-1800	Concrete Saw, self- propelled, gas, 30 HP			16.25	105.00	121.25		
0164061900	Concrete Vibrator, electric, 2 KW			1.25	3.00	4.25		
16406-2000	Concrete Vibrator, gas, 7.5 HP			3.20	8.00	11.20		
16406-2100	Concrete Transit mixer, hydraulic drive, 250 HP, 6 CUM, rear or front discharge			107.00	175.00	282.00	0	
	Concrete Transit mixer, hydraulic drive, 285 HP, 9 CUM, rear or front discharge			127.00	271.00	398.00	0	
a transmitted	EARTHWORK EQUIPMENT:					-		-
and the second	Aggregate Spreader, self-propeled type, 2.4 to 3.6 m wide			3.50	80.00	83.50		
100000000000000000000000000000000000000	Auger, truck mounted, vertical drilling, to 7.6 m deep.			60.00	410.00	470.00		
16408-0300	Auger, horizontal boring machine, 300 mm to 1.2 m, 65 HP			70.00	500.00	570.00		
	Backhoe with attachments, diesel hydraulic, crawler mounted, 0.57 CUM.			75.30	356.00	431.30	400	
	Backhoe with attachments, diesel hydraulic, crawler mounted, 0.76 CUM			95,53	382.00	477.53	450	
	Backhoe with attachments, diesel hydraulic, crawler mounted, 1.5 CUM			146.00	525.00	671.00	500	
10.000	Backhoe with attachments, diesel hydraulic, crawler mounted, 1.9 CUM.			198.44	746.00	944.44	800	
	Backhoe with attachments, diesel hydraulic, crawler mounted, 2.6 CUM.			203.00	818.00	1,821.00	1000	0.000
	Backhoe - loader, with attachments, wheel type,0.57 CUM capacity, up to 50 HP.	-		62.50	205.00	267.50	350	
	Backhoe - loader, with attachments, wheel type, 0.95 CUM capacity, up to 80 HP.		-	79.00	273.00	352.00	400	-
	Backhoe - loader, with attachments wheel type 1.30 CUM capacity, up to 110 HP.			91.50	320.00	411.50	500	
	Compactor, roller, 2 drum, 900 Kg, operator walking	-		9.00	40.00	49.00	300	-
100000000000000000000000000000000000000	Rammer compactor, gas, 450 Kg	_		1,50	9.00	10.50		
CONTROL OF STREET	Vibrating plate, gasi, 600 mm x 900 mm 900 kg.		\rightarrow	2.51	8.00	10.51	\rightarrow	400
	Hammer, pavement demolition, diesel 600 Kg.		-					400
			\rightarrow	16.55	49.00	65.55		
	Hammer, pile driving, air, 33 kilojoule, 110 beats/ minute. Hammer, pile driving, diesel, 60 kilojoule.		\rightarrow	9.00	63.00	72.00		
	A CONTRACT AND CONTRACT MADE CONTRACT OF THE SEC		\rightarrow	20.00	95.00	115.00		
	Roller, tandem, diesel, up to 1 ton.			10.25	51.00	61.25	-	72
	Rollier, tandem, vibratory, 12 HP, gas, 1.8 ton.		\rightarrow	14.75	56.00	70.75		730
	Roller, tandem, diesel, 10 ton.	-	-	24.00	65.00	89.00	-	1236
	Roller, tandem, vibratory steel drum, pneumatic tire, diesel, 13 ton.			25.00	110.00	135.00		1524
	Shovel, front attachment, mechanical, 0.57 CUM.			54.00	257,00	311.00	400	
	Shovel, front attachment, mechanical, 1.1 CUM.		_	84.00	337.00	421.00	500	0.00
	Shovel, front attachment, mechanical, 2.3 CUM		_	120.00	341.00	461.00	900	1890
EAUG SOUVE	Tractor, crawler, with buildozer, torque converter, diesel, 75 HP.	_		73.00	290.00	363.00	400	
710000000		1	1	115.00	494.00	609.00	700	
710000000	Tractor, crawler, with bulldozer, torque converter, diesel, 140 HP.			110.00	101.00		700	
6408-3400	Tractor, crawler, with bulldozer, torque converter, diesel, 140 HP. Tractor, crawler, with bulldozer, torque converter, diesel, 200 HP.			153.00	579.00	732.00	800	

	ON 01 : GENERAL REQUIRMENTS:	的。如此		CONTRA	OTOD OWNER		3 V 1	March 196
		T			EQUIPMENT	EQUIPMENT	RE	NTAL RENTAL
CSI CODE	EQUIPMENT DESCRIPTION:	UNIT	QTY	OPERATION COST SR	DEPRECIATED COST SR/ DAY	DAILY COST INCLUDING OPERATION	COST SR PER DAY	COST S PER MONTH
016408-3800	Tractor loader, wheel, torque converter, 4x4, up to 1.0 CUM, 65 HP.			68.00	250.00	318.00		
016408-3900	Tractor loader, wheel, torque converter, 4x4, up to 1.3 CUM, 100 HP.			127,00	330.00	457.00	1000000	
16408-4000	Tractor loader, wheel, torque converter, 4x4, up to 2.3 CUM,170 HP			151,50	685.00	836.50		
016408-4100	Tractor loader, wheel, torque converier, 4x4, up to 4.0 GUM,270 HP.			256 45	900.00	1,156.45		
016408-4200	Tractor loader, wheel, torque converier, 4x4, up to 5.3 CUM,375 HP.			373.50	1,150,00	1,523.50		
016408-4300	Trencher, chain, boom type, wheel type, diesel, 1.2 m deep, 300 mm wide.			28.00	104.00	132.00		
016408-4400	Paramode in the College of the Colle		_	107.00	223.00	330.00	400	
COLE THE PROPERTY	Truck, dump, 15 ton			88.00	178.00	266.00	300	
16420	GENERAL EQUIPMENT:		_					
016420-0100	Air compressor, diesel engine, rotary screw, 0.28 m3/s, with accessories. Air compressor, diesel engine, rotary screw, 0.35 m3/s, with			25.00	43.00	68.00		43
16420-0200	accessories.			30.00	55.00	85.00		47
016420-0300	Pneumatic naller with accessories			0.50	28,00	28.50		
16420-0400	Electric Cable Winsh, with accessories & 100 set rollers straight. 10 rollers angle.			20.00	109.00	129 00		
	Electric Cable Trailer, 7.5 ton			0.50	26.00	26.50		
	Electric Cable Trailer, 10 ton			0.50	32.00	32.50		
16420-0700	Distributor, asphalt, trailer mounted, 11 CUM, diesel, 38 HP Drill, rotary hammer, electric, 38 mm diameter.			16,25	450,00 20.00	466.25		-
	The American American State (1997) and the American State (1997)			1.75	35.00	21.00 36.75		
16420-1000	Forklift, wheeled, 4 wheel drive, diesel, 1.8 ton, 8.5 m lift			50.00	122.00	172.00	400	75
16420-1100	Generator, gas engine, 10 KW			16.36	50.00	66.36		
16420-1200				160.00	100.00	260.00	600	
	Level, laser type, for pipe laying,self leveling Mixer, plaster & morter, powered, 0.28 m3, 9 HP		-	2.25	350.00 38.00	350.00		
A CONTRACTOR OF THE PARTY OF	Paint sprayer, 0 008 m3/s			0.25	30.00	40.25 30.25	-	
16420-1700	Pump, submersible, electric, 50 mm, 7.6 liter/s			1.25	40.00	41.25		
	Pump, submersible, electric, 100 mm, 35 liter/s			4.25	55.00	59.25	====	
	Pump, submersible, electric, 150 mm, 100 liter/s			16.50	150.00	166 50		
	Sandblaster, portable, open top, 0.17 m3 capacity Sander, floor			0.50 0.50	32.00 30.00	32.50 30.50		
TARGET CONTRACTOR	Sander edger.			0.50	20.00	20.50		
16420-2300	Saw masonry, table mounted, 356 mm diameter, 5 HP			4.25	35.00	39.25		
	Steam cleaner, 750 liter/hour.			2.50	45.00	47.50		
ALL VALVES OF THE PARTY OF	Truck, pickup, 0.7 ton, 4 wheel drive. Welder, electric, 300 amps			15.00	60.00	75.00		
	LIFTING AND HOISTING EQUIPMENT:			43.00	95.00	138 00	500	500
	Crane, climbing, 31 m jb, 4.65 ton, 1.37 m/s			110.00	600.00	710.00		
16460-0300	Crane, tower, static, 40 m high, 32 m jib, 2.8 ton capacity at 2 m/s.			115.00	1,000.00	1,115.00		-
	Crane, crawler, cable, 0.57 m3, 18 ton, at 3.65 m/s			110.00	550.00	660.00		
	Crane, crawler, cable, 1.15 m3, 36 ton, at 3.65 m/s			165.00	900.00	1,065.00		
	Crane, crawler, cable, 1.50 m3, 45 ton, at 3.65 m/s			180.00	1,000.00	1,180.00		
	Crane, truck mounted, cable operated, 8x4, 36 ton at 3.65 m/s. Crane, truck mounted, cable operated, 8x4, 55 ton at 3.65 m/s.			170.00	615.00 790.00	785.00 977.00	1200	
	Crane, truck mounted, cable operated, 8x4, 75 ton at 3.65 m/s.			235.00	1,000.00	1,235.00	1500	
	Crane, truck mounted, cable operated, 8x4, 100 ton at 3.65 m/s:			270.00	1,400.00	1,670.00	5000	
16460-1100	Crane, truck mounted, cable operated, 8x4, 150 ton at 3.65 m/s.			375.00	1,750.00	2,125.00		
	Crane, truck mounted, hydraulic, 25 ton capacity			120.00	450.00	570.00		
	Crane, truck mounted, hydraulic, 50 ton capacity		_	180.00	650.00	830.00	1200	
	Crane, truck mounted, hydraulic, 75 ton capacity. Holst, chain type, overhead, manual 9 ton.		-	200.00	1,000.00	1,200.00	1500	
	Holst and single tubular tower, 2 ton, 30 m high.	-		0.25 16.25	20.00 175.00	20.25 191.25		
	Jack, hydraulic, 90 ton		-	0.10	12.00	12 10		
6460-1800	Jack, hydraulic, climbing with 15 m jackrods & control consoles, 27 ton			0.10	80.00	80 10		
6460-1900	Jack, hydraulic, climbing with 15 m jackrods & control consoles, 45 ton			0.10	120.00	120.10		
	Jack, hydraulic, climbing with 15 m jackrods & control consoles, 110 ton			0.10	300.00	300.10		
Sevenim est.	WELLPOINT EQUIPMENT:					*		
V21124 V21404	Combination jetting & wellpoint pump, 60HP; diesel.		_	8.50	160.00	168.50		
6490-0200	Wellpoint pump, diesel powered, 200 mm, 40 HP			18.00	180.00	198 00		
	Wellpoint pump, diesel powered, 250 mm, 75 HP.			22.00	200,00	222.00		
6490-0400	Wellpoint pump, diesel powered, 300 mm, 100 HP.			35.00	300.00	335.00		
CADO DEDO	Wellpoint pump, diesel powered, 300 mm, 175 HP.			40.00	350.00	390.00		

Example Project

This Appendix provides detailed information for the 5 star hotel building example project. It is 16 floors containing 496 guest rooms, one first floor, and one ground floor with a basement parking garage.

The 10,000 square meter site is in a suburban area in Riyadh city with good access and sufficient material storage area. The site will require clearing. An open ditches cross the rear of the site, requiring construction of a concrete pipe drainage system, and trenches for electrical and telecommunication systems to best utilize the site. Leveling the site for the building will require removal of a low knoll.

The project involves the following:

- 1) 16 floors for guest rooms (496 rooms) of total 46,446 square meter
- 2) One ground floor of total 5144 square meter
- 3) One first floor of total 5144 square meter. The height of each floor 3.20 meter
- 4) Basement parking garage of total 160 car parking

Cost estimating parameter:

Bare Cost: SR 3352 per square meter (excluding furniture)

Project Total Direct Cost: SR 155,690,000 including SR 66,000,000 for subcontracting work

General Contractor Cost: SR 89,690,000 as total of the following:

a) Material Cost: SR 72,648,900 and that equal to 81.0% of the general

contractor cost.

b) Labor Cost: SR 13,453,500 and that equal to 15.0% of the general

contractor cost.

c) Equipment Cost SR 3,587,600 and that equal to 4.0% of the general

contractor cost.

Contract Duration: 36 Months.

ANALYSIS OF MANPOWER DIRECT & INDIRECT COSTS

NOTE: VACATION PAY INCLUDED WITH 257 YEARLY WORK DAYS

HOUSING INCLUDED IN MOBILIZATION.

COSTS IN SAUDI RIALS: CRAFTSMAN	% W/O HOUSING	MONTHLY	BASIC SALARY AVG/MONTH	HOUSING	LIVING	MEDICAL MEDICAL	GOSI	TICKETS	COMPENSA LEAVE PAY	VAC. PAY	IQAMA
ALUMINIUM WORKER	35.91%	1,766.875	1,300.00		100.00	79.17	32.50	125.00	63.54		66.6
ASBESTOS WORKER	35.91%	1,766.875	1,300.00		100.00	79.17	32.50	125.00	63.54	D	66.6
BRICKLAYER	42.20%	1,521.542	1,070.00		100.00	79.17	26.75	125.00	53.96		66.67
BRICKLAYER HELPER	71.66%	1,004.208	585.00		100.00	79.17	14.63	125.00	33.75	*	66.67
CARPENTER, ROUGH	44.69%	1,446.875	1,000.00		100.00	79.17	25.00	125.00	51.04		66.67
CARPENTER, FINISH	38.35%	1,660.208	1,200.00	-	100.00	79.17	30.00	125.00	59.38		66.67
CEMENT FINISHER	42.20%	1,521.542	1,070.00		100.00	79.17	26.75	125.00	53.96		66.67
COMMON LABORER	75.80%	966.875	550.00		100.00	79.17	13.75	125.00	32.29	1821	66.67
DRIVER, TRUCK	47.33%	1,377.542	935.00		100.00	79.17	23.38	125.00	48.33		66.67
DUCT FABRICATOR	37.45%	1,697.542	1,235.00		100.00	79.17	30.88	125.00	60.83	in a	66.67
DUCT FITTER	36.60%	1,734.875	1,270.00	-	100.00	79.17	31.75	125.00	62.29		66.67
EQUIPMENT OPERATOR, LIGHT	44.69%	1,446.875	1,000.00		100.00	79.17	25.00	125.00	51.04	W ₂ n	66.67
EQUIPMENT OPERATOR, HEAVY	39.16%	1,628.208	1,170.00	-	100.00	79.17	29.25	125.00	58.13		66.67
ELECTRICIAN, NORMAL	39.16%	1,628.208	1,170.00		100.00	79.17	29.25	125.00	58.13	2.0	66.67
ELECTRICIAN, SPECIALIST	33.82%	1,873.542	1,400.00	(r *)	100.00	79.17	35.00	125.00	67.71		66.67
ELECTRICIAN, LINEMAN	36.60%	1,734.875	1,270.00		100.00	79.17	31.75	125.00	62.29		66.67
ELEVATOR WORKER	33.75%	2,006.250	1,500.00	1948	750	79.17	37.50	250.00	72.92		66.67
ENGINEER	40.83%	7,041.667	5,000.00	1,250		79.17	125.00	250.00	270.83		66.67
FORMAN, LABOR	42.20%	1,521.542	1,070.00		100.00	79.17	26.75	125.00	53.96		66.67
FORMAN, TECHNICAL, SKILLED	30.88%	2,054.875	1,570.00	-	100.00	79.17	39.25	125.00	74.79		66.67
GLAIZER	35.91%	1,766.875	1,300.00	-	100.00	79.17	32.50	125.00	63.54	2	66.67
HELPER	71.66%	1,004.208	585.00	-	100.00	79.17	14.63	125.00	33.75		66.67
HVAC WORKER	36.60%	1,734.875	1,270.00		100.00	79.17	31.75	125.00	62.29		66.67
MARBLE FIXER	35.91%	1,766.875	1,300.00		100.00	79.17	32.50	125.00	63.54	-	66.67
MASON	42.20%	1,521.542	1,070.00	-	100.00	79.17	26.75	125.00	53.96		66.67
MECHANIST	35.15%	1,804.208	1,335.00	-	100.00	79.17	33.38	125.00	65.00		66.67
PAINTER	44.69%	1,446.875	1,000.00	-	100.00	79.17	25.00	125.00	51.04	•	66.67
PILE DRIVER	29.43%	2,161.542	1,670.00		100.00	79.17	41.75	125.00	78.96	•	66.67
IPE FITTER	36.60%	1,734.875	1,270.00		100.00	79.17	31.75	125.00	62.29		66.67
LUMBER	39.16%	1,628.208	1,170.00		100.00	79.17	29.25	125.00	56.13		L6.67
OOF WORKER	40.17%	1,590.875	1,135.00	-	100.00	79.17	28.38	125.00	56.67		66.67

ANALYSIS OF MANPOWER DIRECT & INDIRECT COSTS

NOTE: VACATION PAY INCLUDED WITH 257 YEARLY WORK DAYS

HOUSING INCLUDED IN MOBILIZATION.

COSTS IN SAUDI RIALS:	OVERHEAD	LOADED COST	BASIC SALARY	ALLO	WANCES	INSURA	NCE		COMPENSA	ATION	
CRAFTSMAN	% W/O HOUSING	MONTHLY	AVG/MONTH	HOUSING	LIVING	MEDICAL	GOSI	TICKETS	LEAVE PAY	VAC. PAY	IQAMA
SPRINKLER INSTALLER	35.91%	1,766.875	1,300.00	-	100.00	79.17	32.50	125.00	63.54	٠	66.67
SHEET METAL WORKER	33.82%	1,873.542	1,400.00		100.00	79.17	35.00	125.00	67.71	0.5	66.67
SKILLED LABORER	32.53%	1,948.208	1,470.00		100.00	79.17	36.75	125.00	70.63	S#1	66.67
STEAM FITTER	35.91%	1,766.875	1,300.00		100.00	79.17	32.50	125.00	63.54	0.00	66.67
STEEL FIXER REINFORCEMENT	43.40%	1,484.208	1,035.00	(8)	100.00	79.17	25.88	125.00	52.50		66.67
STEEL STRUCTURAL FIXER	38.35%	1,660.208	1,200.00		100.00	79.17	30.00	125.00	59.38	•	66.67
SURVEYOR	31.51%	2,150.250	1,635.00	(S#)		79.17	40.88	250.00	78.54	les.	66.67
SUPERVISOR	28.39%	2,400.917	1,870.00	(€)	(**)	79.17	46.75	250.00	88.33		66.67
TILE LAYER	42.20%	1,521.542	1,070.00	5745	100.00	79.17	26.75	125.00	53.96		66.67
TILE LAYER HELPER	71.66%	1,004.208	585.00	•	100.00	79.17	14.63	125.00	33.75	-	66.67
WELDER	36.60%	1,734.875	1,270.00		100.00	79.17	31.75	125.00	62.29		66.67

EXAMPLE FOR APPLYING GENERAL REQUIRMENTS:

BUILDING: 5 STAR HOTEL - FURNITURE NOT INCLUDED

BUILDING DATA ASSUMPTIONS:

ASSUMPTION	AREA	FLOORS
GUEST FLOORS		16
PUBLIC FLOOR EACH M ²	5,144	2
BASEMENT M ²	5,833	1
TOTAL BUILD - UP AREA	46,446	
NUMBER OF ROOMS	496	
DIRECT COST MATERIAL - GENERAL CONTRACTOR	72,648,900	
LABOR DIRECT COST GC	13,453,500	
EQUIPMENT COST GC	3,587,600	
TOTAL DIRECT COST GC "GENERAL CONTRACTOR"	89,690,000	
TOTAL DIRECT COST SUBCONTRACTORS	66,000,000	
TOTAL DIRECT COST	155,690,000	
CONSTRUCTION PERIOD IN MONTHS	36	
MANPOWER:		
TOTAL MANHOURS	1,960,000	
EXPECTED PEAK NUMBER OF LABORS	699	
EXPECTED AVERAGE NUMBER OF LABORS	350	
CAMPUSES DESIGNED FOR	500	. 2
AVERAGE NUMBER OF SKILLED WORKER	275	
NUMBER OF COMMON LABORERS	200	
NUMBER OF FORMANS, INSPECTORS	25	
SITE AREA	10,000	
FOOT PRINT AREA	5,144	
FURNITURE NOT INCLUDED	21,000,000	MSR

CSI				UNIT	% SALARY	UNIT MATERIAL	UNIT	UNIT EQ.	TOTAL	TOTAL
CODE	ITEM DESCRIPTION	UNIT	QUNTITY	SALARY	OVERHEAD	COST	LABOR COST	COST	UNIT COST	COST
010 000		at a second	Kini Tak		Section 201			5000		
010100	DIRECT OVERHEAD COSTS:					-				
010 110	CONSTRUCTION STAFF AT SITE:									
010112	FIELD STAFF	Dispersion	1 1			-	-		1 2225	2000
	10 Construction manager or supermanders. Unique & large solu	Man Month	33	20,000	48.42%	+			29,683	979,55
ACCOUNTS ON THE	20 Construction manager or superinvenders, polic between 50 & 100 million SR	Man Month	-	15,000	50.88%	+		-	22,631	
100001175.0125	O Constitution manager or superintendent, jobs less than 50 million SR	Man Month	+ +	10,000	55.79%	1			15,579	
	10 Felici Architect. Engineer, unique à targe jobs	Man Month	24	18,000	49.24%	-			26,863	644,70
	20 Felid Architect Engineer, jobs bisween 50 & 100 million SR	Man Month	+	12,000	53.33%	-		-	18,400	
CONTRACTOR OF THE PARTY OF THE	Fleid Architect Engineer, jobs less than 50 million 58 Fleid Codi Engineer, Unique & long india.	Man Month	12	8,000	59.48%	-			12.758 26,863	322,35
20.437.007.0000	Preid Civil Engineer, jobs less than 50 millions	Man Month	- "	18,000	49.24%	1			18,400	GEE,00
arov trouvelay	Perist Civil Engineer, plots less than 50 million SR	Man Month	+	12,000	53.33%	+	_		12,758	
	7) Fred Biochical Engineer , Unique & large pion:	Man Month	30	8,000	59.48%	+			22,631	678,93
2,100 (42,12)	Fedd Encircal Engineer: Unique & large pilos	Man Month		15,000	50.88%				15,579	0,0,00
	0 Field Electrical Engineer, piblic less than 50 mallions SR	Man Morath		10,000	55.79%	1			10,643	
Carlo Constant	O Freid Industrial Engineer, Unique & large (rick	Man Month	+	6,500	63.73%				24,042	
minutes and the	G Field edustrial Engineer, sites between 50 & 100 million 59	Man Month	+ +	16,000	50.26%	1			16,990	
The same of the same	Fisikil enkastrui Engineer, jobs less trun 50 milijons SR	Man Month	+	11,000	54.45%	1			11,348	
CONTRACTOR	0 Field Michanical Engineer, Unique & large jobs.	Man Month	30	7,000	62.11%	1			22,631	678,93
	0 Feld Mechanical Engineer, jobs less than 50 millions	Man Month		15,000	50.88%	100			15,579	(
20.20	0 Field Mechanical Engineer, jobs less than 50 million SR	Man Month	+ +	10.000	55.79%	1		-	10,643	-
1	D Field Quantity Surveyor	Man Month	30	6,500	63.73%				7.508	225,250
District Security	0 Field Surveyor	Man Month	25	3,500	50.17% 52.65%	1			5,343	133,568
010112-0900	16 26H2C-5	Man Month	108	550	107.80%	1			1,143	123,435
2000 A 10	0 Laboratory Material Testing Engineer	Man Month	16	12,000	53.33%	1			18,400	294,400
	0 Laboratory Technicians	Man Month	32	4,000	51.20%				6,048	193,533
C-11/00-11/00-11	0 Laboratory Laboner	Man Month	32	550	107.80%				1,143	36,573
THE STREET	0 Plants Manager	Mas Month	36	8,000	46.12%				11,690	420,825
0.500.000	0 Plant, Electrical power, Operators	Man Month	36	2,200	59.51%				3,509	126,330
010112-1600	0 Plant, Networks Maintenance	Man Month	1 1	1,900	62.42%				3,086	0
- and the same of	0 Plant, Water Supplies Drivers	Man Month		1,200	74.90%				2,099	0
	0 Stores Manager	Man Month	33	2,000	61,35%				3,227	106,494
010112-1900	D Store Keepers	Man Month	33	1,400	70.06%				2,381	78,568
010012-2000	D Store Drivers	Man Month	50	1,200	74.90%				2,099	104,938
010112-2100	0 Workshop Manager	Man Month		8.000	46.12%				11,890	0
010112-2200	Workshop Mechanic	Man Month	33	3,500	52.65%			1	5,343	178,309
010112-2300	Workshop Drivers	Man Month	50	1,200	74.90%				2,099	104,938
010114	PROJECT MANAGER:	The Control of the Co		1,200	0.00%		-22011/20	-		
010114-0100	PROJECT MANAGER LARGE OR UNIQUE PROJECTS	Man Month	36	25,000	46.94%				36,735	1,322,475
010114-0120		Man Month		18,000	49.24%				26,863	0
010114-0140	The state of the s	Man Month		12,000	53.33%				18,400	0
010114-0160	Project Manager Secretary	Man Month	36	2,500	53.33%				3,833	138,000
010116	PROJECT MANAGER SUPPORTING STAFF:				0.00%		-	-		0
010116-0100	Accountant	Man Month	36	4,500	50.07%				6,753	243,113
010116-0200	Accountant Aid	Man Month		3,000	54.58%				4,638	0
010116-0300	Computer Operators.	Man Month	66	3,500	52.65%				5,343	352,619
010116-0400	Claims Manager:	Man Month	6	15,000	50.88%				22,631	135,788
010116-0500	Draftsman, shopdrawings	Man Month	36	2,500	57.29%			1	3,932	141,563
010116-0600	Drivers	Man Month	36	1,200	74.90%				2,099	75,555
010116-0700	Engineer, Architect, Shopdrawings & Malenals Approval	Man Month	12	10,000	55.79%		- 5 11 15 1		15,579	186,950
010116-0800	Engineer, Civil, Shopdrawings & Materials Approval	Man Month	12	7,000	62.11%				11,348	136,175
010116-0900	Engineer, Electrical, Shopdrawings & Materials Approval	Man Month	12	7,000	62.11%				11,348	136,175
010115-1000	Engineer, Mechanical, Shopdrawings & Materials Approval	Man Month	12	7,000	62.11%				11,348	136,175
Denote the Court	Engineer, Planning	Man Morth	18	8,000	59.48%				12,758	229,650
010116-1200	Engineer, Structural, Shopdrawings & Materials Approval	Man Month	12	7,000	62.11%				11,348	136,175
010116-1300	Committee to	Man Month	30	2,000	61,35%				3,227	96,813
010116-1400		Man Month	36	1,500	68.13%				2,522	90,788
	Office Service, Laborers	Man Month	36	550	107.80%	1			1,143	41,145
	Procurement Manager	Man Month	24	3,000	54.58%				4,638	111,300

CSI	ITEM DESCRIPTION	UNIT	QUINTITY	UNIT	% SALARY	UNIT MATERIAL	LABOR	UNIT EQ.	TOTAL	TOTAL
CODE	The state of the s	(San	GUNITA	SALARY	OVERHEAD	COST	COST	COST	UNIT COST	COST
10200	CONSULTANT/ OWNER OH EXPENSES:								- United the Horizontal	-1
10221	CONSULTANT/OWNER REPRESANTATIVE OFFICES:									
	ELUSTRATIONS AND ASSUMPTIONS	All Antibodes								
	FOR THIS PROJECT CONSULTANT STAFF WILL BE MINIMUM OF 15 PERSONS	PERSONS	15							
	UTLITIES PROVIDED AT SITE MEGLECT CITY CONNECTION:	OFFICE LABORER	3							
and the second	Office cleaning consumables	Man Month	540			10.00			10	5,40
Mediter mittel	Denking water supplies including lea service	Man Monti	540			22.00			22	11,88
Successive and an armite	Eelectrical power supply city connected at 875 KWH per man month.	Mars Month KWH	-						175	
	Electrical Power Supply, on-site generation at 875 KWH, per man month.	Man Month	540						263	141,75
	Equipment Maintenance.computers, copiers, printersetc. jobs more than 20 million SB.	Month	36						200	7.20
	General Water Supplies at 4.5 CUM per man month.	Man Month	540	The same					25	13.36
-	Offices Service laborers	Man Month:	72	550.00	107,80%				1,143	82,25
attenesses heads.	Supplies, stationary, & computers supply	Month:	36						706	25.20
1-80-3W	Telephone & Fax bills: Local & In Kingdom Long distance calls Average:	Month	36						2,000	72,00
)10224	CONSULTANT ACCOMODATION & SERVICES:			10000-01						
	ILLUSTRATIONS AND ASSUMPTIONS									
	ASSUME 2 CARS ONLY FOR CONSULTANT PM & CM	CARS	2							
	NO CARS PROVIDED FOR DWINER REPR	CARS								
	SINCE SITE IS LOCATED IN RIVADH NO HOUSING IS PROVIDED									
010224-0100	Cars Insurance, consultat staff	Gar Month	72						125	9,00
010224-0200	Cars Insurance Owner's representative, "if required"	Car Month	2 2						167	7
010224-0300	Cars Marrienance & fuel. Consultant staff	Car Month	72						300	21,60
The second second	Technological discherological programment with the control of the		1			7				21,50
010224-0400	Cars Maintenance & fuel, Owner's representative. "If required"	Car Morth							400	
010224-0500	Consumables, housekeeping, "If housing required"	Man Month				12.00			12	9
010224-0600	Cook for Consultant Kitchen * It housing provided"	Man Month		3,500.00	ro ece				5,343	3
010224-0700	Cook assistant * If housing provided*	Man Month		750.00	52.65%		-			
erener om 17			-	730.00	95.21%				1,464	3
010224-0800	Drinking water supply to consultant housing " if housing required".	Man Month				24.00			24	
	Electrical power supply per Person city connected. Monthly, at 1200 KWH per man month" housing required."	Man Month							240	9
	Electrical Power Supply, on-site Generation. at 1200 KWH								7/868	
010224-1000	per man month"if housing required"	Man Month							360	
010224-1100	Housekeeping cleaning staff. Assume 1 Laborer for ever 6 staff persons." If housing provided."	Man Month		550.00	107.80%				1,143	3
0102241200	Water Supply city connected, per person, Monthly, at 8 CUM per person. "If housing required"	Man Month		1					44	:
0102241300	Water supply per person, on-site delivery, Monthly "if housing required"	Man Month		-			-			
	CONTRACTOR SITE OVERHEAD EXPENSES:	Mai Moral.							67	
ergeness v	CONTRACTOR OFFICES:					-				
10010	ELUSTRATIONS AND ASSUMPTIONS									
	COTRACTOR STAFF TOTAL MANMONTH IS THE TOTAL SHOWN ABOVE					-	-		-	
	UTILITIES FOR OFFICES AT SITE FOR CAMPUS. AT RENTED LAND ALL PROVIDED BY GC						-			
	ASSUME 3 COMMON LABORERS TO SERVE CONTRACTOR STAFF	LABORERS	3		-					
	SINCE PROJECT LOCATED IN RIVADH NO FLIGHTS ARE ALLOWED FOR STAFF TRIPS	EASORETO	-					-		
	000000000000000000000000000000000000000								-	-
210310-0100	Office cleaning consumables	Man Month				12.00			12	5,472
	Ornking water supplies.	Man Month	456			20.00			20	9,120
	Eelectrical power supply.city connected at 625 KWH per man morali	Man Month	456						125	0,120
Local Model (Marches)	Electrical Power Supply, on-site generation at 625 KWH per man month.	Man Month	-						188	85,500
	Equipment Maintenance.computers, copiers, printersetc. jobs more than 20 million SR.	Month	456				-	-	350	12 500
	General Water Supplies at 4.5 CUM per man month.	Man Month	36				-		25	11,286
	Offices Service Indoners	Man Month	108	550.00	107,80%		_		1,143	123,435
10316-0700	Office Supplies, stationary, & computers supply	Month		37,000					1.56	51,500
0.00000 0.0000	Office, Engineering Drawings supply	Month	36 25					-	16%	25,000
	Office telephone & Fax bits-Local & Long distance calls Average	Month:	36		-			-	3,000	108,000
10310-1000	Office, travel expenses from site to main office, if applicable cost depends						-			
	on site location and class of travel. Assume an average of 2 trips monthly.	Trip							45	# ngr
	CONTRACTOR STAFF ACCOMODATION:							!		
	LLUSTRATIONS AND ASSUMPTIONS								1	
9	ASSUME CARS ONLY FOR CONTRACTOR ENGINEERS	CARS	2							
	TOTAL NUMBER OF ENGINEERS AT SITE > 17									

CSI	ITEM DESCRIPTION	UNIT	QUINTTITY	UNIT	% SALARY	UNIT MATERIAL	LABOR	UNIT EQ.	TOTAL	TOTAL
CODE				SALARY	OVERHEAD	COST	COST	COST	UNIT COST	COST
	Cars Insurance, contractor staff.	Car Month	207	+	-	1		-	125	25,87
result Sugaro	Cars Mantenance & fuel, Contractor staff.	Car Month	13,040		-				350	72,45 91,27
M. Control of the Control	Consumables, housekeeping, for all campuses, Average. Cooks for all contractor campuses	Man Month	30		52.65%	1	-	1	5,343	160,28
	Cook assistants	Man Month	85		107.80%	1		-	1,143	97,14
Paris North	Dinning water, contractor campuses	Man Month			107,00.0	24.00	-	-	24	312,95
010040-0000		The state of	13,040		-	24.00	-	-		012,30
010340-0700	all campuses at 575 KWH per man month	Man Months							115	
010340-0800	Electrical power supply per Person, on-site generation, Montitiv, all campuses at 575 KWH per man month.	Man Month	13,040						173	2,249,341
010340-0900	Housekeeping,cleaning staff. Assume 1 Laborer for ever 12 staff persons.* If housing prowded*	Man Month		550.00	107.80%				1,143	C
010340-1000	Land rental contractor full campuses & applicable Less than 100 persons Assume 40 m2/person;100 to 200 person 30m2/More than 200 persons 20 m2.Cost Varies with location. Study Case 350 persons,36 months, within 50 KM from site in Riyadh.	Man Month SOM	252,000			3.75			4	945,000
010340-1100	Labor transportation from of -site tabor campuses to site within 50 KM trip distance.	Man Month	12,584	13.00	74.90%		22.73	5	28	354,230
010340-1200	Water Supply city connected, per person, Monthly, at 8 CUM per person.	Man Month			Or end or a second				44	
010340-1300	Water supply per person, on-site delivery.Monthly	Man Month	13,040			-			67	869,311
010400	ENVIROMENTAL & SAFETY MEASURES EXPENSES:									
DATE OF THE PARTY	Ambidance insurance	1	32	T				-	250	8,000
Contraction Contract	Ambutance maintenance & fuel	Month	32		/	-	201201		300	9,800
	Doctor, "general practice" in remote sites	Month	-							0
	First aid expenses average	Man Month	13,040			1			15	195,595
Exercise (Section)	Medicine consumables for remote sites	Man Month	13,040			1			35	456,388
010400-0600	Sewer, Septic tarik(s) contents removal, all campuses & construction area pits.	Man Month Man Month	13,046						36	469,428
010400-0700	Assumed 0.15 cum daily per person. Progressive site clean-up, Based on site area, assume monthly at 0.026 Hour/SOM.	Month Sqm	174,816			-	0.03		0	26,224
	Consider actual cleaning area equals to uncovered site area.		0.105050				DENNA.			(A)
010400-0800	Progressive Buildings idean-up, Based on build-up area, assume monthly 0.09 Hour/SOM labor and 0.005 HRS/SOM equipment. Actual cleaning period is 50% of project time.	Month Sam	836,028	1			0.02	U	0	223,115
010420	INSURANCE					Contract Values				
010420-0100	Builders all risk type insurance, percent of contract value.	% Job Value	0.25%			155,690,000.00			155,690,000	389,225
010420-0200	Builders equipment insurance, percent of total on-site equip, value	» Eq. Value	0.65%			3,587,600.00			3,587,000	23,316
010420-0300	Builders risk standard insurance, percent of contract value.	% Job Value	0.15%						4	0
010420-0400	Employees Medical insurance, See Manpower OH costs Div. 010058	Man Year							900	0
010420-0500	Employees social security insurance, See manpower OH costs Div. 010058	Man Month								0
010440	JOB CONDITIONS & PRICE ESCALATION:									
010440-0100	Escalation to mid - point of construction for jobs own then 2 years, consider 1.5 % annually of the lotal direct cost every exits year.	%-years	1.500%					155,690,000	155,690,000	2,335,350
010440-0200	Labor shortage at site location, add 10 % to labor cost value.	Percent	Name of the last o			 	13,453,500		13,453,500	0
OFFICE STREET	Restricted sites to reach lack of working space add 3 % of labor & material cost value	Percent	0,00%		-	1	CHICKSHILL	155,690,000	155,690,000	
ons at the following		92.11.11/1	0.00%			-	EC 000 000	103,030,000	66,000,000	
010500	Shortage of subcontractors at site location, add 10 % on specific subcontracts.	Percent	0.00%			-	66,000,000		00,000,000	
010520	GENERAL OVERHEAD COSTS: MARK - UP:									0
	ILLUSTRATION AND ASSUMPTIONS									
	AS JOB TIME IS 36 MONTHS & ESTIMATED COMPLETION IS 36 MONTHS, OVERTIME WORK IS NA									
010520-0200	Overfirms work to complete job within assigned construction period required. To compute month rate Libe corresponding % from table to multiply by labor & equip.cost	Month Percent		NOT APPLICABLE			13,453,500	3,587,600	17,041,100	0
10560	OVERHEAD COSTS LABOR:									
010560-0100	Engineer average wage, overhead costs, housing not included, percent of Basic Salary	%	0	included in labor cost						0
010560-0200	Laborer overhead costs, housing not included, percent of laborers Basic Wages	*	1	included in labor cost						0
010560-0300	Skilled Laborer average overhead costs ,housing not included, percent of Basic Wages	%	0	included in labor cost						0
010560-0400	Special Skilled worker overhead costs, whousing not included, percent OI Basic Wages	*	0	included in labor cost						0
010560-0500	For staff & labor Housing See DIV. 015									0
10570	GEN. CONTRACTOR OVERHEAD ON SUBCONT.PRICE:			10						0
	Overhead on subcontractors price	2	15.00%	GALCULATED IN SUM	WARY	1	20			0
						1				0
010570-1000	UNSEEN EXPENSES:									0
010570-1000 10580 10580-0100	Site unseen overhead expenses such as mail, express mail, E-mail, work delays due to wether conditions	*	0.00%	NOT APPLICABLE		-			155,690,000	
010570-1000 10580 10580-0100	Site unseen overhead expenses such as mail, express mail, E-mail, work delays due to wether conditionsenc, Percent of direct cost @ PROFIT: Depending on Project size								155,690,000	0
010570-1000 010580 110580-0100 110590 11590-0100	Site unseen overhead expenses such as mail, express mail, E-mail, work delays due to wether conditionsetc. Percent of direct cost @ PROFIT: Depending on Project size General contractor profit on subconfractors prices	*	10.00%	CALCULATED IN SUMA						0
010570-1000 10580 10580-0100 10590 1590-0100 1590-0200	Site unseen overhead expenses such as mail, express mail, E-mail, work delays due to wether conditionsenc, Percent of direct cost @ PROFIT: Depending on Project size		10.00%		YRAN					0

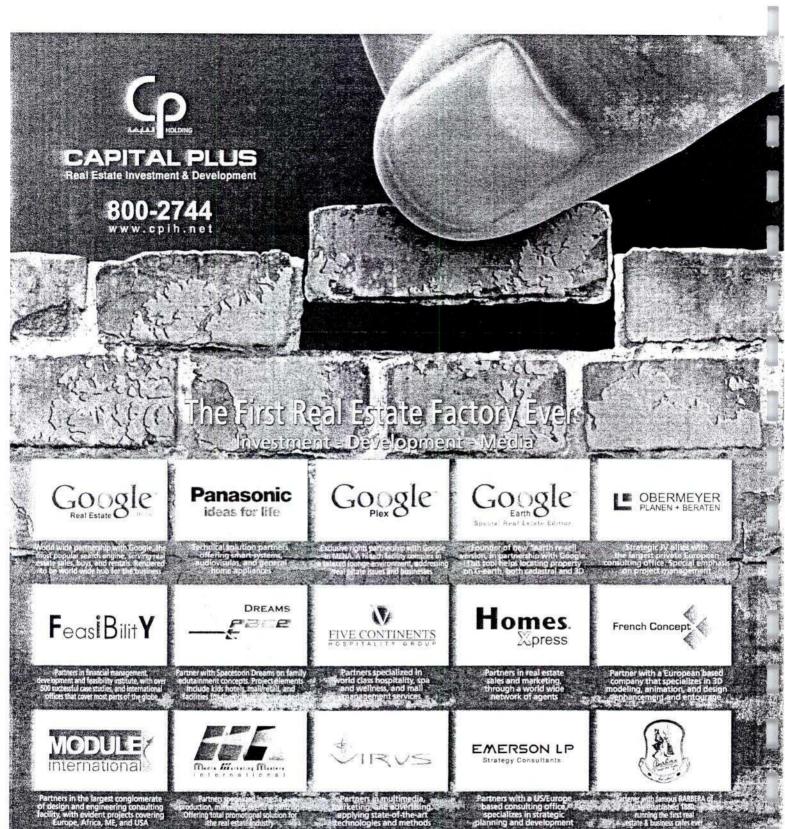
200		1		100000	OVER SHIM DO	Vin Dille Auro and Province	UNIT	TOWN AND REAL PROPERTY.		Charles and Charles
CODE	ITEM DESCRIPTION	UNIT	QUNTITY	SALARY	% SALARY OVERHEAD	UNIT MATERIAL COST	LABOR	COST	TOTAL UNIT COST	COST
010600	BONDS & GURANTEES:									
010620	PERFORMANCE BONDS:		ASSUME	1.25% OF JOB DIF	RECT COST	FOR FINANCI	NG CHAR	GES & GUA	RANTEES	
010620-0100	Bid Bond, at 0.0001 of contract value monthly. Example job value 144,000,000 million & bond duration for 8 months.			APPROX.CONTRACT	VALUE					
010620-0200	Emphore chames of 0.0124, parent our month for auto-allowed one million mandeth Examples	1.2500%		155.690,000						1,946,12
010620-0220	Financing charges, material letter of credits, at 0.9 % of contract value									
010620-0400	Performance bond									
010640	GURANTEES:									
The second	Final handover gurantee bond, percent of bond value		· Vigneria							
010700	PERMITS & UTILITY FEES & TAXES:									
010720	PERMITS:	lanu.	1 = 1	Tung anni ioani e		C40 508	10.12			
	City permit fees if applicable	SOM	N YZ SA	NOT APPLICABLE	2150		- 25		100	
010740	UTILITY CONNECTION FEES:								78	
	Electrical connection fees if applicable	KVA		PAID BY OWNER				150	150	
	For high voltage: SCECO installed equipment, "If Applicable" Add	KVA		PAID BY OWNER		1,000.00	1		1,000	
010070-0300	Water & sewer connection fees if applicable	CUM	4	PAID BY OWNER		2 2 20	Elect	, j. f.		1000
010760	TAXES:								W)	
010760-0100	Taxes for foreign contractors. Percent of Contract Value	Percent	0	NOT APPLICABLE						
010760-0200	Taxes for joint ventures. Percent of Contract Value pending JV structure. Example 60% forein, 40% local.	Percent	0	NOT APPLICABLE					8	
010760-0300	Zakat for local contractors: See DIV. 010046 Main Office Overhead.									
010800	SUBMITTALS,PHOTOGRAPHS:) \)	9
010820	SUBMITTALS:	<i>(1)</i>	4911							
010820-0100	Shopdrawings & material Submittals, See Div. 010116									
010820-0200	Site area survey, if required, at 150 sriper 1000 sigm of site area	SOM	10,000					D	0	1,50
- NOVE NAME OF STREET	Site soll testing, if required, See also DIV 020120 - Site works	Bore	20						300	6,00
	Site topography survey & property line survey	SOM	10,000					1	1	
010840	PHOTOGRAPHS Progress photographs 10 shots, 4 pnnts size 200x250 mm, average	Month	33					800	800	26,40
	Video firequested	Month	33					300	300	20,40
010900	QUALITY CONTROL:	135.5	10.0	1,						
010905	SITE MANAGMENT;		11							2
010905-0100	Construction managment, other than contractor staff if required. In this case, contractor managment staff Div. 010112 shall be adjusted accordingly Minimum 5% of contract value.	Percent	5.00%	NOT APPLICABLE						
010905-0120	Construction management, other than contractor staff if required. In this case, contractor management staff Div. 010112 shall be adjusted accordingly Maximum 7% of contract value.	Percent	7.00%	NOT APPLICABLE						
010905-0100	Contractor Management Staff, See DIV: 010112								8	
:E35005595	project planning management, if outside contractor staff at 0.075 % of cotract value	Percent Month		NOT APPLICABLE						
010925	TESTING:									
	Sample testing at sits, See DIV. 010112 Averge sample testing, building trades at site and in outside laboratory, at 0.55 % of contract	Lancas and the same of the sam	TO TOWNS AND	LAB INCLUDED		11.000 M W W W W W W W W W W W W W W W W W			College Com College Co	
010925-0220	value	Percent	0.55%	The state of the s		155,690,000.00	15000000		155,690,000	856,29
	Sample testing Dutside Laboratory within city limits Average building materials Sample testing Outside Laboratory within city limits Average soil testing materials	Test	-	NA ROADS CONSTRU	MITION:		300.00 400.00		300 400	5
-managed and		Test		NA HOADS CONSTRU	CHON		400.00		400	
010945	FACTORY INSPECTION & TESTING , OUTSIDE KINGDOM:									
010945-0400	Consultant/lowner, attending factory test, outside Kingdom, priced according to number of visits & country of destination.Example Cover Repr., Engineer & contractor representative for 5 days to USA, first class Iravel.Assume for this big 15 days tip.	Day Trip	*	INCLUDED IN SUB-CO	NTRACTORS	6,000.00			6.000	
010945-0500	Foreign expense testing, coming from outside the kingdom, including residency & travel. Example: From USA, travel. J class, for 3 days visit, assume travel time days.	Day Trip	(*):	INCLUDED IN SUB-CO	NTRACTORS	13,008.00			13.008	-
10965	FACTORY INSPECTION & TESTING , IN KINGDOM:							-		
010965-0400	Owner/ Consultant attending factory test. In Kingdom, to be priced according to number of visits & City of destination.	Trip		INCLUDED IN SUB-CO	NTRACTORS					
011100	INDIRECT RUNNING OVERHEAD EXPENSES:									(
11205	CONTRACTOR MAIN OFFICE OH EXPENSES:		MET VIVE			ANNUAL TURN	NOVER			-
011205-0100	Accounting/Legal & data processing, average percent of annual TO	% Of TO	0.85%			64,870,833,33	T		64,870E)	551,40
	Cars for staff, maintenance, fuel & insurance, everage percent of annual TC	% Of TO	0.30%			64,870,833.33			64,870,833	194,61
	Engineering & planning department. Salaries, percent of annual TO.	% Of TO	2.50%			64,870,833,33			54 8 70 88 1	1,621,77
	Estimation department, Salaries, average percent of annual TO	% OF TO	0.50%			64,870,833.33	+		FA E TA FEET	524 35
C Green Charles	Constitution of the second control of the se	COLORAL DESIGNATION OF THE PROPERTY OF THE PRO	D-SV A					*****	- 1	467.77
	General Manager Office Salaries, minimum 300000 SR	LOT	7/2.20		-					
	General Manager Office Selanes, maximum 750000 SR	LOT	750,000			F2 670 710 11			E4 970 500	702,00
	Procurement department, Salaries, average percent of annual TD	% Of 10	0.50%			64,870,833.33			64,870,833	324,35
	Publicity expenses, minimum 50000 SR	LOT				64,870,833.33	- 1		64,870,833	

and the same	ON 01 : GENERAL REQUIRMENTS:					40		DE ME		
CSI	ITEM DESCRIPTION	UNIT	QUNTTTY	UNIT SALARY	% SALARY OVERHEAD	UNIT MATERIAL COST	UNIT LABOR COST	UNIT EQ.	TOTAL UNIT COST	TOTAL
011205-0720	Publicity expenses, maximum 200000 SR.	LOT	200,000			64,870,833.33			64,870,833	200,0
011205-0800	Recruitment & igama expenses, staff	% OF TO	0.05%			64,870,833.33			64,870,633	32,4
011205-0900	Rental & utilities, mainin office, minimum 150000 SR	% Of TO				64,870,833.33			64,870,833	
011205-0920	Rental & utilities, mainn office, minimum 750000 SR	% Of TO	750,000			64,870,833.33			64,870,833	750,0
011205-1000	Staff medical insurance, average percent of annual TO	% Of TO	0.40%			64,870,833.33			64,870,833	259,4
011205-1100	Statt incertives & profit Sharing, average percent of annual TO	% Of TO	0.70%			64,870,833.33		1	64,870,833	454,0
011205-1200	Telephona, Fax & telex bits, average percent of annual TO	% OF TO	0.25%			64,870,833.33			64,870,833	162,1
011205-1300	Travel Expenses, staff, average percent of annual TO	% OI TO	0.35%			64,870,833.33			64,870,833	227,0
011205-1400	Zakat expenses, average percent of annual TO	% Of TO	0.02%			64,870,833.33			64,870,833	12,9
011205-1500	Rule of thumb & using above 1/4, main office expenses for less than 5M SR annual tumover.	% Of TO	15.50%							
011205-1600	Rule of thumb & using above %, main office expenses from 6M To 10M SR annual turnover	% OF TO	12.55%							
011205-1700	Pulle of thumb & using above &, main office expenses from 15M to 30M SR annual tumover	% OF TO	8.90%	24.1						
011205-1800	Ruse of thumb & using above %, main office expenses from 35M to 50M SR annual TO	% Of TO	8.00%							
011205-1900	Rule of thumb & using above %, main office expenses from 65M to 80M SR annual TO	% Of TO	7.50%							
011205-2000	Rule of thumb & using above %, main office expenses over 85M SR annual turnover	% OF TO	7.25%							
015	MOBILIZATION									
015100	CARS:						X4			
01500-0100	Consultant cars, deluxe, Depreciated cost,5 years,	Man Car Month	2					30,000	30,000	60,00
01500-0200	Consultant cars, Medium size, Depreciated cost,5 years	Man Car Month								
01500-0300	Contractor cars, deluxe, Depreciated cost,5 years.	Man Car Month	2					30,000	30,000	60,00
01500-0400	Contractor cars, Medium, Depreciated cost,5 years	Man Car Month	4					22,500	22,500	90,00
01500-0500	Contractor cars, Small, Depreciated cost,5 years	Man Car Monti	3					15,000	15,000	45,00
01500-0600	Contractor workshop & plants cars, Pick-up, Depreciated cost,5 years.	Man Car Month	3			1		26,250	26,250	78,75
15200	TEMPORARY CONSTRUCTIONS:									
15205	ACCESS ROAD & RAMPS:		ASSUMED	ji.						
015200-0200	Access road, including cleaning, 100 mm compaction & 200 mm fill.	SOM					1.50	4	5	
015200-0300	Access road, including clearing 100 mm compaction & 200 mm selected fill.	SOM	500			6.00	1.50	4	11	5.50
015200-0400	Access road, including clearing, 100 mm compaction & 200 mm fill with 1.5 Kg prime asphalt coat & 025 kg/m2 asphalt tack coat	SOM				9.00	2:00	4	15	11
015200-0500	Access road, including clearing, 100 mm compaction & 200 mm fill with 1.5 Kg prime asphalt coat, 0.25 kg/m2 asphalt tack coat & 50 mm asphalt	SOM				40.00	3.00	5	48	
015200-0600	Access road, periodic maintenance.	Month SQM	18,000			1.50	0.995	2	4	71,91
015200-0700	Dirt surface parking, including cleaning & 200 mm fill leyer	Car							300	
015200-0800	Diri, surface parking periodic maintenance	Month Car	*						160	
015200-0900	Shellered dirt parking space	Car	14					S	2,300	32,20
015200-1000	Sheftered asphalt parking space	Car							2,880	10
015200-1100	Access nump, concrete	sow	60						60	3,60
015200-1200	Access rump, gravel fili, 100 mm deep	SOM							8	(
15210	CONSULTING/OWNER ENGINEER SITE OFFICES:		10000			1				
	Offices. Masonry & concrete deck, based on 15 SOM per person of the staff, including	Man Month				258.33	93.75		352	
Committee of	meeting rooms & office support area.20 % material salvage value. Offices Masonry & corrugated deck, based on 15 SQM per person of the staff, including		2			0.0000000	37753		20.001	- 10 - 10 TO
******		Man Month	1.			218.75	72.92		292	- 1
015210-0200	meeting rooms & office support area, 25 % material salvage value.		58060				20.83	5	226	130,07
015210-0200	Imeeting rooms & office support area, 25 % material salvage value. Offices, Prefabricated units, 15 SQM per person including meeting rooms, offices & support areas. Depreciated at 50 months.	Man Month	576			200.00	20.03			-
015210-0200	Offices, Prefabricated units, 15 SQM per person including meeting rooms, offices &	Month station	288			134.58	5.55	0	140	40,438
015210-0200 015210-0300 015210-0400 015210-0500	Offices, Prefabricated units: 15 SQM per person including meeting rooms offices 8 support areas. Depreciated at 80 months. Office computer network. Depreciated cost at 36 months, Monthly consider 8 stations. Office equipment, Copiers, typewritersetc, Depreciated cost at 36 months, Monthly	Month station Month	288 36			1	-		1,668	60,049
015210-0200 015210-0300 015210-0400 015210-0500	Offices, Prefabricated units: 15 SQM per person including meeting rooms, offices 8 subport areas. Depreciated at 80 months. Office computer network. Depreciated cost at 36 months, Monthly consider 8 stations. Office equipment, Copiers, typewritersetc, Depreciated cost at 36 months, Monthly Office software, depreciated cost at 36 months.	Month station Month Month	288 36 36			134.58 1,665.66	5.55 0.69	0	1,668 1,250	60,049 45,000
015210-0200 015210-0300 015210-0400 015210-0500 015210-0600	Offices, Prefabricated units: 15 SQM per person including meeting rooms, offices 8 suspont areas. Depreciated at 80 months. Office computer network. Depreciated cost at 36 months, Monthly, consider 8 stations. Office equipment, Copiers, typewritersetc, Depreciated cost at 36 months, Monthly Office software, depreciated cost at 36 months. Office standard furniture per person. Depreciated cost at 36 months, Monthly	Month station Month	288 36			134.58	5.55	0	1,668	60,049
015210-0200 015210-0300 015210-0400 015210-0500 015210-0600 015210-0700	Offices, Prefabricated units: 15 SQM per person including meeting rooms, offices 8 subport areas. Depreciated at 80 months. Office computer network. Depreciated cost at 36 months, Monthly consider 8 stations. Office equipment, Copiers, typewritersetc, Depreciated cost at 36 months, Monthly Office software, depreciated cost at 36 months.	Month station Month Month	288 36 36			134.58 1,665.66	5.55 0.69	0	1,668 1,250	60,04 45,00
015210-0300 015210-0400 015210-0500 015210-0600 015210-0700 115215	Offices, Prefabricated units: 15 SQM per person including meeting rooms, offices 8 suspon areas. Depreciated at 80 months. Office computer network. Depreciated cost at 36 months, Monthly consider 8 stations. Office squipment, Copiers, typewritersetc, Depreciated cost at 36 months, Monthly. Office software, depreciated cost at 36 months. Office standard furniture per person. Depreciated cost at 36 months. Monthly. CONSTRUCTION WORKSHOPS & PLANT DEPRECIATED COST AT 36 MONTHS. Equipment maintenance workshop, minimum of 16 SQM for jobs up to 10MSR.	Month station Month Month	288 36 36			134.58 1,665.66	5.55 0.69	0	1,668 1,250	60,04 45,00
015210-0300 015210-0400 015210-0500 015210-0500 015210-0700 015215 015215-0100	Offices, Prefabricated units: 15 SQM per person including meeting rooms, offices 8 susport areas. Depreciated at 80 months. Office computer network. Depreciated cost at 36 months, Monthly consider 8 stations: Office squipment, Copiers, hypewritersetc, Depreciated cost at 36 months. Monthly Office software, depreciated cost at 36 months. Office standard turniture per person. Depreciated cost at 36 months, Monthly CONSTRUCTION WORKSHOPS & PLANT DEPRECIATED COST AT 36 MONTHS.	Month station Month Month Month Month Man Month	288 36 36			134.58 1,666.66 41.66	5.55 0.69 0.55	0 1	1,668 1,250 43	60,04 45,00
015210-0200 015210-0300 015210-0400 015210-0500 015210-0600 015210-0700 15215 05215-0100	Offices, Prefatricated units: 15 SQM per person including meeting rooms, offices 8 suspont areas. Depreciated at 80 months. Office computer network. Depreciated cost at 36 months, Monthly consider 8 stations. Office squipment, Copiens, typewritersetc, Depreciated cost at 36 months, Monthly Office software, depreciated cost at 36 months. Office software depreciated cost at 36 months. Office standard furniture per person. Depreciated cost at 36 months, Monthly CONSTRUCTION WORKSHOPS & PLANT DEPRECIATED COST AT 36 MONTHS. Equipment maintenance workshop, minimum of 16 SQM for jobs up to 10MSR, including tools, maintenance workshop, 15 SQM/1878 for jobs 15MSR to 50 MSR, including tools, marrierance equipment, 3 employees facilities. Example for project of 45 MSR, 8 36 months constit. Equipment maintenance workshop, 0.75 SQM/1MSR for jobs 65MSR to 85 MSR, including tools, Equipment maintenance workshop, 0.75 SQM/1MSR for jobs 65MSR to 85 MSR, including tools, Equipment maintenance workshop, 0.75 SQM/1MSR for jobs 65MSR to 85 MSR, including tools,	Month station Month Month Man Month Month	288 36 36			134.58 1,866.66 41.66	5.55 0.69 0.55	0 1 0	1,668 1,250 43	60,04 45,00 24,55
015210-0200 015210-0300 015210-0400 015210-0500 015210-0600 015210-0700 015215-0100 015215-0200 015215-0300	Offices, Prefatricated units: 15 SQM per person including meeting rooms, offices 8 susport areas. Depreciated at 80 months. Office computer network. Depreciated cost at 36 months, Monthly consider 8 stations: Office significant cost at 36 months. Office software, depreciated cost at 36 months. Office standard turniture per person. Depreciated cost at 36 months, Monthly. CONSTRUCTION WORKSHOPS & PLANT DEPRECIATED COST AT 36 MONTHS. Equipment maintenance workshop, minimum of 16 SQM for jobs up to 10MSR, including tools, maint, equipment & employees facilities. Equipment maintenance workshop, minimum of 16 SQM for jobs up to 10MSR, including tools, maint, equipment & employees facilities. Equipment maintenance workshop, 15 SQM/1MSR for jobs 15MSR to 50 MSR, including tools, maintenance workshop, 0.75 SQM/1MSR for jobs 55MSR to 85 MSR, including tools, maintenance workshop, 0.75 SQM/1MSR for jobs 65MSR to 85 MSR, including tools, maintenance workshop, 0.75 SQM/1MSR for jobs 65MSR to 85 MSR, including tools, maintenance workshop, 0.75 SQM/1MSR for job over 100 MSR including tools.	Month station Month Month Man Month Man Month Month Month Month Month Month Month Month SOM MSR	288 36 36			134.58 1.866.86 41.56 142.22 9.77	5.55 0.69 0.55 55.55	0 1 0 1 1 3 5 1 8	1,668 1,250 43 333	60,04 45,00 24,55
015210-0200 015210-0300 015210-0400 015210-0500 015210-0500 015210-0700 115215-0100 015215-0200 015215-0300 015215-0400	Offices, Prefatricated units, 15 SQM per person including meeting rooms, offices 8 support areas. Depreciated at 80 months. Office computer network. Depreciated cost at 36 months, Monthly consider 8 stations. Office supported the present of the	Month station Month Man Menth Man Menth Month Month Month SQM MSR Month SQM MSR Month SQM MSR	288 36 36 576	NOT ADDIJICADI E		134.58 1,666.66 41.66 142.22 9.77 9.78	5.55 0.69 0.55 55.55 3.82 3.82	0 11 0 0 136 18 18 18 18	1,668 1,250 43 333 31 31	60,040 45,000 24,550
015210-0300 015210-0300 015210-0400 015210-0500 015210-0600 015210-0600 015215-0100 015215-0100 015215-0300 015215-0400 015215-0500	Offices, Prefabricated units: 15 SQM per person including meeting rooms, offices 8 suspon areas. Depreciated at 80 months. Office computer network. Depreciated cost at 35 months, Monthly consider 8 stations. Office equipment, Copiers, typewritersetc, Depreciated cost at 36 months, Monthly. Office software, depreciated cost at 36 months. Office software, depreciated cost at 36 months. Office standard furniture per person. Depreciated cost at 36 months, Monthly. CONSTRUCTION WORKSHOPS & PLANT DEPRECIATED COST AT 36 MONTHS. Equipment maintenance workshop, minimum of 16 SQM for jobs up to 10MSR, including tools, maintenance workshop, 1 SQM/14SF for jobs 15MSR to 50 MSR, including tools, maintenance workshop, 1 SQM/14SF for jobs 15MSR to 50 MSR, including tools, maintenance workshop, 1 SQM/14SF for jobs 15MSR to 50 MSR, including tools, maintenance equipment & employees facilities. Example for project of 45 MSR, including tools, maintenance ecuroment & employees facilities. Equipment maintenance workshop, 0.65 SQM/1MSR for jobs 65MSR to 85 MSR, including tools, maintenance equipment & employees facilities. Equipment maintenance workshop, 0.65 SQM/1MSR for jobs 65MSR to 85 MSR, including tools, maintenance equipment & employees facilities.	Month station Month Month Man Month Man Month Month Month Month Month Month Month Month SOM MSR	288 36 36 576	NOT APPLICABLE		134.58 1,866.66 41.66 142.22 9.77 9.78	5.55 0.69 0.55 55.55 3.82	0 1 1 0 0 136 18 18	1,668 1,250 43 333 31	60,64 45,00 24,55

CSI				UNIT	% SALARY	UNIT MATERIAL	UNIT	UNIT EQ.	TOTAL	TOTAL
CODE	ITEM DESCRIPTION	UNIT	QUNTITY	SALARY	OVERHEAD	COST	COST	COST	UNIT COST	COST
015215-0800	Masonry Plant For Remote sites, 0.05 spm open area per GSQM of build - up area Example. 0 Aproject of 75,000 m2 will regire 3750 m2 of open area & closed area Eq.cost deprotated for 73 months.	Month SQM GSQM		NOT APPLICABLE		1.25	0.28	3	5	
015215-0900	Duct workshop, minimumm 20 m2, pr 1 m2 per 1000 m2 build up area, plus 60 m2 open area	Month SQM GSQM	1,672			5.88	0.69	17	23	38
15220	CONTRACTOR CAMPUSES ON-SITE/OF-SITE									
	ILLUSTRATION AND ASSUMPTIONS									
	AVERAGE NUMBER OF LABORERS	LABORER	204							
15220-0100	Ornsite labor camp, 6 SQM per person, including support area, masonry and concrete deck depreciated at 35 months with 20% salvage value on material	Man Month				94.00	37,50		132	
15220-0200	On-site labor camp, 6 SQM per person, including support area, masonry and corrugated deck, depreciated at 36 months with 25 % salvage value on material	Man Month	7.200			75.00	29.16		104	749
15220-0300	On-site labor camp,8 SQM per person, including support area, prefabricatedunits, including support area. Depreciated at 60 months, Monthly	Man Month				106.66	6.67	1	115	
15220-0400	Labor camp furniture, depreciated cost at 36 months, Monthly	Man Month	7,200		1	20.83	0.28	0	21	153
	ILLUSTRATION AND ASSUMPTIONS		A							
	AVERAGE NUMBER OF SKILLED LABORERS	LABORER	275							
15220-0500	On-site skilled labor camp, 8 SQM per person, including support area, masonry and concrete deck, depreciated at 36 months with 20% salvage value on material.	Man Month				124 44	50.00		174	
15220-0600	On-site skilled labor camp, 8 SQM per person, including support area, masonry	Man Month	9,900		-	100.00	38.88		139	1,374
15220-0700	and comunated deck, depreciated at 36 months with 25% salvage value on material. On-site skilled liabor camp, 10 SQM per person, including support area, prefabricated.	Man Month			-	133.33	8.33	2	143	1,014,
15220-0800	units, including support area. Depreciated at 60 months. Monthly Skilled labor camp furniture, depreciated at 36 months, Monthly	Man Month	9,900			25.00	0.28	0	26	253.
15220-0900	On-site staff camp, 14 SQM per person, including support area, kitchen, dining baths, sitting,		Cypero							200,
10220-0900	Masonry and concrete deck depreciated at 36 months with 20% selvage value on material.	Man Month				228,66	87.50		316	
	ILLUSTRATION AND ASSUMPTIONS									
	AVERAGE NUMBER OF SKILLED INSPECTORS On-site staff camp, 14 SQM per person, including support area, masonry	LABORER	25			vandelse			- Compa	
15220-1000	and corrugated deck, depreciated at 36 months with 25 % salvage value on material.	Man Month	1000.000			189.58	68.05		258	
15220-1100	On-site staff camp.18 SOM per person, including support area, prefabricated units, including support area. Depreciated cost, Monthly.	Man Month	900			240 00	15.00	3	258	232.
152201200 1522013400	Staff camp furniture, depreciated cost, Monthly. On-site senior staff camp, 28 SQM per person, including support area, masonry	Man Month				37.50 482.22	175.00	0	38	
DESCRIPTION OF STREET	and concrete deck depreciated at 36 months with 20% salvage value on material. On-site senior staff camp, 28 SQM per person, including support area, maximize	700 F7E =				201051	7 24-0707		657	
15220-1400	and comugated deck, depreciated at 36 months with 25% salvace value on material. On-site senior staff camp,30 SQM per person, including support area, prefabricated.	Man Month				408.33	136 11		544	
15220-1500	units, including support area, Depreciated cost, Monthly.	Man Month				400.00	25.00	5	430	
15220-1600	Staff camp furniture, depreciated cost, Monthly,	Man Month	900			41.66	0.42	0	42	38,
15220-1700	Of-site labor campus, for land rent see DIV. 010340									
15220-1800	For utilities installation to Contractor housing campus See DIV 015290									
	For Running overhead Expenses, Contractor housing campus See DIV. 010340									
15225	CONTRACTOR CAMPUS SUPPORTING FACILITIES:									
015225-0100	General public tollets over the site, 0.15 SQM per person, including pit. Example site with 800 persons for 36 months construction period.	Man Month	18,000			2.08	0.73		3	50.
015225-0200	Health care facility for remote sites, masonry walts & concrete deck average 40 m2 including utilities & furnished, depreciated cost at 36 months	Month SOM	365)	NOT APPLICABLE		22.92	5.55	9	38	
015225-0300	Pray area"mosque" open sheltered average 0.5 SQM per person, at 40% prayers, including utilities 36 months construction.	Man Month	7,200			3.64	1.04	0	5	34,
015225-0400	Recreation area, covered sports playground 0.08 SOM/person, 36 months construction.	Man Month	1,440			1.24	0.50	0	2	2.8
	Recreation area.open, sports playground 0.25 SQM/person. Example. For over 500 labors campuses & 36 months construction	Man Month	4,500	15		0,23	80.0	0	1	2,4
015225-0600	Storage,covered,Cement storage area,minimum of 100 SQM for jobs less than 50 M SR.	Month SQM	1,500			7.50	2.08		10	14,3
015225-0620	Example, For 36 months Construction period. Storage, covered, Cement storage area minimum of 200 SQM for jobs more than	Month SQM	3,200			7.50	2.06		10	30.6
	55 MSR & less than 90 M SR. Storage,covered,Cement storage area_minimum of 300 SQM for jobs more than 100 MSR.	Month SQM	10,800			7.50	2.08		10	103,4
and the second	Storage area covered minimum of 30 SQM for lobs less than 10 M SR.	Month SQM	10,000			8:33	2.22	-	11	103,4
CHELDRICK CONTROL	Storage area, covered, average of 1 SOM /1 M SR for jobs Up to 100 M SR	Month SQM MSR				8.33	2.22		11	_
	Storage area, covered, average of 0.85 SOM /1 M SR for jobs over 125 M SR	Month SQM MSR	4,764			7.08	1.89		9	42.7
015225-0900	Storage keydown open Area, Fenced, 100 SQM minimum for jobs less than	Month SQM	STATE			0.83		-	-	76.7
_	10 M SR Masenal cost depreciated						0.11		1.	
200	Storage laydown open. Area, Fenced, 10 SQM/1MSR for jobs up to 100 MSR	Month SQM MSR	18,900			0.83	0.11		0.94	17,7
	Storage laydown open. Area: Fenced; 8 SQM*1MSR for jobs over 125 MSR. Storage, Special: Covered, For jobs over100 MSR; or speciality jobs, average 0.40SQM*1MSR.	Month SQM MSR	44,839		-	0.83	0.11		0.94	42,1
	Example for 125 million project at 36 months construction period quntity will be.	Month SQM MSR	2,242			11.97	4,86		17	37,7
15225-1220	Storage, Special for furniture, Covered, For speciality jobs, Furnished, average 2.00 SDM:1MSR	Month SQM MSR	14 7	NOT APPLICABLE		11.97	4.86		17	
15225-1300	Stores offices, average of 0.15 SQM /1 MSR, jobs up to 100 MSR, furnished.	Month SOM MSF	841			13.54	4.86		18	15.4
	CONTRACTOR SITE OFFICES:				E STATE OF					
15230-0100	Offices based on 15 SOM per person of the staff, including meeting rooms &	Man Month				258.33	93.75		352	
15230-0200	office support area. Masonry & concrete Deck Offices based on 15 SOM per person of the staff, including meeting rooms &	W-16-				But We	2000			-
10230-0200	office support area. Masonry & corrugated Deck. Offices, Prefabricated units, 12 SOM per person including meeting rooms &	Man Month				218.75	72.91		292	
1000000	offices support areas. Depreciated cost, monthly	Man Month	456			266.66	71.72		310	141.2
and the second second	Office computer network, Deprecialed cost, Monthly, BASED ON 12 STATIONS	Month station	432			134 59		r	140	.60.6
15230-0500	Office equipment, Copiers, Drawing copiersetc,Depnciated cost, Monthly	Month	36			3,750.00	4 15	-	2,755	135.1
CONTRACTOR OF STREET	Office software	Month	36						1,250	45,0
15230-0600	Once some as	acie:								

E-3

ITEM DESCRIPTION	UNIT	QUNTIT	Y UNIT SALARY	% SALARY OVERHEAD	UNIT MATERIAL COST	UNIT LABOR COST	UNIT EQ. COST	TOTAL UNIT COST	TOTAL
cades, barrel reflectorized	EA							200	
cades, barrel, with flashers.	EA	10						325	3,2
cades, barrel, with Steady burn light.	EA							350	
e, wood and comugated steel, 2 meters high, Quantity based on lot size 25% salvage rial cost, Example: For a site tot area 10,000 SQM , Perimeter Fence Approx.	LM	2			30.00	10.00		40	
e, chain link including steel angles,2 meters high, 25 % salvage on material cost. titly based on lot size. Same. Example Line 015235-0400	LM	500			45.00	15.00		60	30,00
e gate, 6m wide,	EA	1						1,500	1,5
e gate, 1m wide	EA	1			1			450	9
e vehicle gate, with 2 manual arm reflectorized barrier.	EA	1						2,000	2,00
d house Kicsk, masonry block.	Man Month	108			9.79	3.88		14	1,4
ICE BOARDS & SIGNS:									
of Main Sign, approx. 3m x 2 m. Assume at least 3 signs per site unless shown otherwise.	EA	3						4,200	12,60
tion & notice signs, Quantity depends on project land size. Assume as minimum requirment to or assume 1 sign each 10000 SQM for large lot area sites. Material salvage vaue 25 %	EA EA	5						40	20
c signs, Quantity depends on project land size, Assume minimum of 6 signs or 1 sign 5000 m2 uncovered area of the site lot area material salvage value 25%	EA	6						69	41
ing signs. Quantity depends on project size. Assume 1 sign every 1000 m2 of build up area imporary facilities areas Assume elso: 1 sign every 5000 m2 of site lot area Material salvage 25 %.	EA	48						125	6,05
CLEANING									
ng & levelling mobilization site, per SQM of mobilization camp area.	SQM	5,600						2	11,20
SECURITY MEASUTES:	AUGOSTINI EM C.			·	1				
xinguishers, stores, offices, campuses & construction area, depends on project size ne minimum of 1 every 500 SQm area.	EA	90						225	20,25
Tanker for fire fighting including operation & maintenance	Month	36						6,000	216,000
buckets, construction area, Depends on project size.	EA	12						75	873
ity guards, depends on project size, minimum of 3 per site included in section 010112. Field	Man Month		550.00	107.80%	1				-560
PORARY UTILITIES:	President Contract		L. LONDON	1	1				
vrally emergecy generators depends on site power consumption needs. Assume 0.75 KW rison, To cower all site temporary facilities loads & spare power depriciated monthly. Ide a site of 500 persons, for 36 months construction period regime:	Man Month KW	20,250			15.75	20.00	2	38	764,438
orang electrical distribution, depends on site area & distributed power based on 0.75 KW per n. For site areas less than 100,000 SOM, 30 % Material salvage value. For same Example, 15300-0100	Man KW	563			315.00	100.00		415	233,438
orary electrical distribution, depends on site area & distributed power based on 0.75 KW per n. For site areas more than 100,000 m2 & less than 300,000 m2. Maierial cost: Jated For same Example Line 015300-0100.	Man KW				455.00	150.00		605	C
orary electrical distribution, depends on site area & distributed power based on 0.75 KW per n. For site areas more than 400,000 m2. Material cost depreciated. For same Example Line 0-0100	Man KW				577.50	180.00		758	c
prary septic tank, per person of manpower (MP) force, assume 0.1 Cum per person, ity based on 15 days storage	CUM Person	1,049			160.00	30.00		190	199,241
prary sewer lines, per CUM Discharge, and mobilization camp site, for campuses te up to 5000 m2 & 200 persons approx	CUM Person				250	104		354	0
orary sewer lines, per CUM Discharge, and mobilization camp site, for campuses area site (han 5000 m2 & as example 500 persons approx.	CUM Person	1,049			110	83		193	202,387
pracy water storage tanks for Campus, assume 0.15 Cum per day per person of MP tome	CUM Person	210			265.00	70.00	20	355	74,453
ays stortage trary water lines, per CUM of Distributed water and mobilization campuses site area. le for site area up to 5000 m2 & 200 persons.	CUM Person							950	0
wary water lines, per CUM of Distributed water and mobilization campuses site area	CUM Person	210				_		521	109,268
ie for site area more than 5000 m2 6 500 persons. rary water storage for construction, Assume 2 CUM steel tank per 1500 SQM of build-up.	M3 GSQM	62			 		-		102,200
naterial cost depreciated. Example: required for 15,000 m2 build-up area, 10 tanks regired	NO GOOM	02		1				-51	0
beautiful consistence of constitution constitutions and an accordance to	Man Month	72						222	16,000
rary Telephone & fax fines including wiring, 25 % salvage value. SRUCTION AID	Line	12						850	10,200
TY: nets.100 mm mesh with supports, average.					1				0
	SQM Month	458			-	-		50	22,912
FOLDING: 30% MATERIAL SALVAGE VALUE	Monen	16						408	7,350
fing exterior wall, steel, tubular, depreciated SQM cost. Quantity depends on area of	SQM Month	104,900		- 1	8.24	0.92		9	
wars & duriding shape & reight. Complete with framing catwarks bridges, ladders fing interior wall up to 5 meter high, tubular steel, including planks, supports,base &	SOM Month	1,080		-	4.76	0.56	-	5	960,534 5,744
Sing. Hand winch for masons, 30 meter long, 9 meter high	EA	1			2.19	0,00	-	583	563
swing 225 Kg reparity 0.6 m wide 7 m long, hend operated 20 m etosi.	Month	10			350.00	50.00	60	460	4,600
swing lightweight, 100 Kg capacity 0.6 m wide,7 m long, hand operated.	Month				281.94	22.22	27	331	0
swing lightweight 100 Kg capacity 0.6 m wate 7 m long powered electric operation	Month	OF.	NOT APPLICABLE		875,00	33.33	50	958	0
STRUCTION EQUIPMENT.		10.00							0
STRUCTION EQUIP. RENTAL OR OWN					1				0
	QUIP. RENTAL OR OWN	QUIP. RENTAL OR OWN	QUIP. RENTAL OR OWN	QUIP. RENTAL OR OWN	QUIP. RENTAL OR OWN	QUIP. RENTAL OR OWN			







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Division 2 Site Works



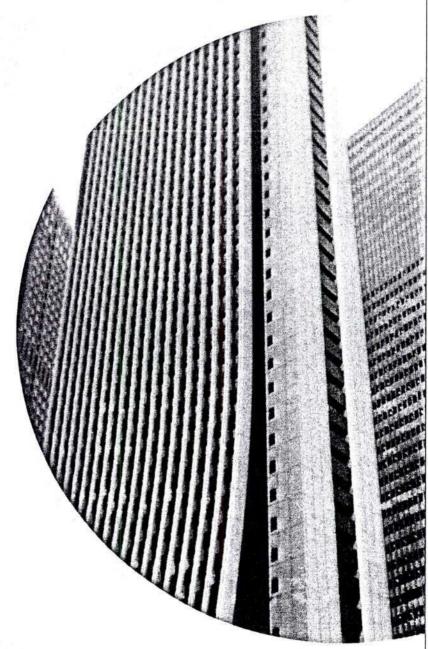
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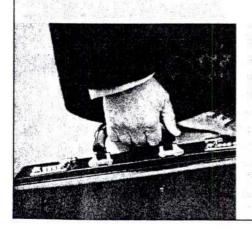
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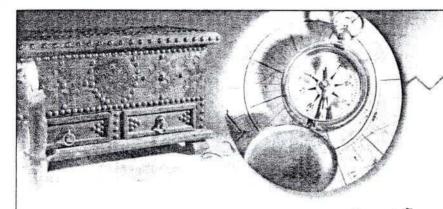
وتسويت







ص.ب ۸۷۲۱۸ الرياض ۱۱٦٤۲ المملكة العربية السعودية السعودية +٩٦٦ (١) ٢٢٩٤٤٠٥ جـوال: ۸۷۲۱۸ مات فاكس: +٩٦٦ (١) ٢٢٩٤٤٠٥ جـوال: +٩٦٦ (١) ٢٢٩٤٤٠٦ فاكس: +٩٦٦ (١) ٢٢٩٤٤٠٦ الله – شمال شرق جامع العويضة الكس: +٩٦٦ (١) ٢٢٩٤٤٠٦ الله – شمال شرق جامع العويضة حاكس: +٩٦٦ (١) ٢٢٩٤٤٠٦ الله – شمال شرق جامع العويضة الكسن: +9.0.80x 87218 Riyadh 11642 Kingdom of Saudi Arabia Tel.: +966 (1) 2294406 (1) 2294405 Mobile: +966 505429685 Fax.: +966 (1) 2294406 Abdul allah King Road - North East Al Owaidh Mosque www.abusulimanalrajhi.com



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Division 2 Site Work

Estimating Tips

020 Sub-surface Investigation & Demolition

Estimator shall obtain all available information concerning soil type. A site investigation is mandatory to reveal all site conditions, looking in particular for hazardous waste, stream beds, prior dumping, site restrictions and access, flood plains and all other factors that would strongly influence construction methods and costs. As any ground penetration has some risks, test pits, and knowledge gathered tend to control such risk.

Demolition usually is executed by speciality contractors if explosives method is involved. Estimator shall consider in costing building demolition all factors that may affect the cost such as work space, rubbish handling, temporary bracing or shoring, dust control, security measures, hauling distance and costs of any required permits.

021 Site Preparation & Excavation Support

Site visit will determine the extent and scope of work required for the site preparation. The estimator shall focus on plantation at site if any, dumped material, need for haul roads, access, storage of material, limited site size and access problems or any forced restrictions that may result in lower productivity rates, estimator shall also consider all security measures for isolated sites to prevent theft and damage by adding fencing or increase the number of guards.

022 Earthwork

As there are many factors that affect productivity rates of earthworks, no productivity rate shall be considered as 100% accurate. This book includes many items concerning earthworks in different types of soils as well as different type of equipments. We did our best to be very close to an accurate estimate by considering most of the factors that affect this operation. When preparing the bid, estimators shall focus on the following major factors: soil type, water content, dewatering, any required bracing or sheeting to excavation banks, hauling distance. Estimator shall choose the proper economical piece of equipment having best efficiency verses lower cost. Estimator shall be aware of the following factors that affect equipment efficiency, productivity and costs.

Swing angle of equipment - Ideal is 45 degree, for 90 degree swing efficiency could reach to 80% while for 120 degree it may reach 70%.

Cut Depth: Choose the proper equipment to do job accordingly.

Soil Type: Items in the book highlights this factor, Ideal equipment efficiency is for a sandy soil, if the soil is sand and gravel equipment efficiency is reduced to 90%, while efficiency could be as low as 20% for a poorly blasted rock.

Degree of Equipment Operation: Time of equipment service, operator activity, weather factors, project restrictions, etc.. are some key factors affecting efficiency. Stockpile Distance and length of drag as well as maneuvering conditions. Site topography and volume of work Excavation management planning. Others such as specification control requirements, actual slope requirements, distress means and maximum allowable slope and slope configuration requirements. All productivity rates in this book are based on a bank measure.

025 Paving & Surfacing

Good management planning for placing the base course and asphalt layers will result in cost savings for any repair work due to the climate conditions.

026 Piped Utilities

Good planning for proper timing of piped utility excavation will result in the best productivity for other construction items. Contractor must always keep an easy access to different parts of site, material flow and labor movement to maintain good productivity. Contractor shall carefully study the site topography, buildings distribution, planned utilities & investigate all discrepancies that may affect productivity and costs.

029 Landscaping

Establishing a work plan, scheduled properly will reduce maintenance cost and will guarantee better growth of plants. Contractor shall focus on soil conditions and plant watering requirements as well as the maintenance staff required. Maintenance cannot be excluded from any project, because of different plants specified to be planted in different seasons. Contractor must consider all types of plants specified, scheduled planting plan, needed maintenance time, staff and watering requirements during the construction period.

CSI	ITEM DESCRIPTION	UNI	т	CREW	D.O. MIN.	D.O. MAX.	D.O.	AVRG.
CODE		20850		STRUCTURE	A	-10.000	AVRG	E.H.
020	SUBSURFACE INVESTIGATION & DEMOLITION	100				1	= 1	
020 120	STANDARD PENETRATION TESTS BORING:	-						
	Boring job,mobilization & demobilization, average 40 km within city limits	Job	1.00	D Skilled Foreman D Building Laborets D Light Equip. Driver D Flat Truck W/Auger D Truck 3 Ton	2.00	2.00	2.00	8.00
020 123-0300	Boring,auger holes in earth,no sample, 100 mm	LM		7 11001 3 1011	16.00	18.00	17.00	1.00
020 123-0400	Cased boring in earth, with samples, 65 mm				13.00	15.00	14.00	1.23
020 123-0500	Cased boring in earth, with samples; 100 mm				8.00	9.00	8.50	2.000
020 123-0600	Drilling in rock no sampling		1.00 1.00 1.00	Skilled Foreman Building Laborer Light Equip. Driver Crawler Type Drill 100 mm Air Compressor 600 CFM with 15m Air Hose 75 mm dia		10.00	9.50	1.778
020 123-0700	Drilling in rock with / casing & Sampling	1			7.50	9.00	8.25	2.133
020 125	DRILLING,CORE:							
020 125-0100	Drilling core, in 200 mm concrete slab, including layout & setup, diameter 25 mm	EA	1.00	25 Skilled Foreman 00 Skilled Laborer 00 Laborer 00 Core Drill Large	42.50	49.00	45.75	0.188
020 125-0150	Drilling core, in 200 mm concrete slab, including layout & setup, diameter 25 mm				27.73	32.00	29.87	0.288
020 125-0300	Drilling core, in 150 mm concrete slab, including layout & setup, diameter 76 mm				37.22	43.00	40.11	0.215
020 125-0750	Drilling core, in 200 mm concrete stab, including layout & setup, diameter 150 mm				25.71	30.00	27.86	0.311
020 125-0950	Drilling core, in 200 mm concrete slab, including layout & setup, diameter 200 mm		_		23.42	27.00	25.21	0.342
020 125-1100	Drilling core, in 150 mm concrete slab, including layout & setup, diameter 250 mm				28.52	33.00	30.76	0.281
020 125-1110	Drilling core, in 200 mm concrete slab, including layout & setup, diameter 250 mm				20.23	23.00	21.62	0.395
020 125-1200	Drilling core, in 200 mm concrete slab, including layout & setup, diameter 400 mm				9.77	11.00	10.39	0.819
020 125-1790	Core drilling in 200 mm prestressed hollow core plank, including layout & setup, diameter 25mm				36.00	41.00	38.50	0.222
020 125-1810	Core drilling in 200 mm prestressed hollow core plank, including layout & setup, diameter 76 mm				30.00	35.00	32.50	0.267
020 125-1850	Core drilling in 200 mm prestressed hollow core plank, including layout & setup, diameter 150 mm				24.00	28.00	26.00	0.333
020 125-1850	For core drilling horisontally add to above items.	•		•				15%
020 128	TEST PITS:							
020 128-0100	Test Pit, Hand Digging, Light Soil	CUM		Common Laborer Tool Set	3.50	4.00	3.75	2.286
020 128-0120	Test Pit, Hand Digging, Heavy Soil				1.75	2.00	1.88	4.571
020 550	SITE DEMOLITION							
020 554	SITE DEMOLITION:							
020 554-0020	Remove masonry existing catch basin or manhole, up to 3 m deep	EA	1.000	5 Labor Foreman 0 Building Labors 0 Light Equp. Operator 0 Backhoe loader, 50 HP	4.50	5.00	4.75	1.778
020 554-0080	Remove reinforeced concrete existing catch basin or manhole, up to 3 m deep				3.50	4.00	3.75	2.286
20 554-0130	Store catch basin or manhole cover at site storage				14.00	16.00	15.00	0.571
020 554-0700	Remove only chain link, 3 meters high				175.00	201.00	188.00	0.046
020 554-0900	Remove fire hydrants, thrust blocks and sore at site.		1.000 1.000 1.000	5 Labor Foreman D Plumbers D Equip, operator D Common laborer D Backhoe 50 HP D Tool sets	4.00	5.00	4.50	6.000
20 554-1400	Remove stone wall with mortar, disposal plied on Site	CUM	1.000 1.000 1.000	D Labor Foreman D Building Laborers D Equip. operator, light D Equip. operator, heavy Air compressor, 250CFM W/ 4 air Tools & Hoses Mechanic D F.E. Loader, 1.9 M3	20.00	23.00	21.50	0.800
20 554-1710	Pavement Removal, Bituminous; 75 mm Thick				175.00	201,00	188.00	0.091
20 554-1900	Remove concrete pavement, 100mm thick; mesh reinforced				97.50	112.00	104.75	0.164
20 554-1900	Remove concrete pavement, 150mm thick; mesh reinforced				65.00	75.00	70.00	0.246
00 554 4000	Remove concrete pavement, 200mm thick; mesh reinforced				48.75	56.00	52.38	0.328

CSI CODE	ITEM DESCRIPTION	UN	IIT	CREW STRUCTURE	D.O. MIN.	D.O. MAX.	D.O. AVRG	AVRG. E.H.
020 554-2200	Remove concrete pavement, 200 mm To 600 mm thick, reinforced				4.88	6.00	5.44	3.27
020 554-2500	Remove curbs pavement,concrete; reinforced	LN	a .	0.125 Labor Foreman 2.000 Building Labors 1.000 Light equip: operator 1.000 Backhoe, loader 50 HP	60.00	69.00	64.50	0.13
020 554-2600	Remove curbs, granite	LN	A	0.125 Labor Foreman 2.000 Building Labors 1.000 Light equip, operator 1.000 Backhoe, loader 50 HP	100.00	115.00	107.50	0.08
020 554-2960	Pipe removal,concrete, no excavation, 600 mm				30.00	35.00	32.50	0.26
020 554-3500	Railroad track removal, ties & track				12.00	14.00	13.00	0.66
020 554-5500	For congested sites or small quantities, removal add to above items	1			1.80	2.00	1.90	4.44
020 554-5600	Disposal of removed material 32 KM round trip	cu	M	0.125 Equip operator 1.000 Truck Driver 0.125 Shovel, 1.7 M3 1.000 Dump Truck, 10 Ton	28.00	32.00	30.00	0.32
020 600	BUILDING DEMOLITION			1				
020 604	BUILDING DEMOLITION:							
020 604-0012	Demolition large urban steel buildings including 32 KM haul	cui	м	0.25 Labor Foreman 3.00 Building Laborers 2.00 Equipment Operator 2.00 Truck Drivers 1.00 Hydraulic Crane 23 Ton 1.00 F.E Loader, T.M. 1.91 CUM 2.00 Dump Trucks 10 Ton	525.00	604.00	564.50	0.06
020 604-0050	Demolition large urban concrete buildings including 32 KM hauf				375.00	431.00	403.00	0.088
020 604-0500	Small buildings, no salvage included - steel bldg				420.00	483.00	451.50	0.076
020 604-0600	Small buildings, no salvage included concrete building				320.00	368.00	344.00	0.100
020 604-0800	Small buildings, no salvage included wood building				352.00	405.00	378.50	0.091
020 616	EXPLOSIVE DEMOLITION:			tion and the second				
020 616-0010	Explosive demolition,not including disposal haul to 32 km - concrete building	CUI		0.25 Skilled Foreman 8.00 Skilled Workers 2.00 Building Laborers 1.00 Equipment operator 2.00 Heavy Truck Drivers 1.00 F.E. Loader, T.M.2 CUM 2.00 Dump trucks 16 ton	450.00	518.00	484.00	0.053
020 616-0200	Explosive demolition,not including disposal haul to 32 km - masonry building			79	450.00	518.00	484.00	0.053
020 616-0420	Disposal of removed material 60 KM round trip			0 125 Equip operator 1.000 Truck Driver 0.125 Shover 1.7 M3 1.000 Dump Truck 10 Ton	14.00	161.00	87.50	0.643
020 700	SELECTIVE DEMOLITION				45.			
020 702	CEILING DEMOLITION:							
020 702-1000	Demolition ceiling plaster on concrete ceiling	SQN		2.00 Laborers 2.00 Power Tools	45.00	52.00	48.50	0.356
020 706	DOOR DEMOLITION:	10/11/01		2,001,040,1008		Zerlager P		
020 706-0220	Demolition exterior door, in masonry wall, double leaf 44 mm, 1.8 m X 2.1 m	EA		1.00 Laborer 1.00 Tool Set	5.00	6.00	5.50	1.600
020 706-0240	Demolition hollow metal, exterior door, in masonry wall, double leaf 44 mm, 1.8m X	$+\tau$		1.00 100 36	3.00	3.00	3.00	2.667
	2.1m Demolition Roll-up or overhead door	++	-					(Maria ana)
	Demolition Revolving door, 1.2 meter	++	-		1.60	2.00	1.80	5.000
020 708	ELECTRICAL DEMOLITION:	+	_3	+	0.80	1.00	0.90	10.000
		1		1.00 Electrician			124722	
	Demolition of galvanized rigid steel conduit,exposed 50 mm to 100 mm	LM		1.00 Tool Set 2.00 Electricians	40.00	46.00	43.00	0.200
	Demolition copper busduct 3000A	1		2 00 Tool Sets 1,00 Electrician	6.00	7.00	6.50	2.667
020 708-1570	Demolition transformer,3phase. 750 kVA			1.00 Tool Set	0.50	1.00	0.75	16.000
020 708-2260	Removal fluorescent lighting fixture, 600 mm x 1200 mm, 4 lamps	1			15.00	17.00	16.00	0.533
020 714	FRAMING AND CONCRETE DEMOLITION:		_			The state of the s		
020 714-1060	Concrete Beams, or columns, reinforced, disposal removal to 32 km off site	CUN	,	0.25 Labor Foreman 3.00 Building Laborers 2.00 Equipment Operator 2.00 Truck Drivers 1.00 Hydraulic Crane 23 Ton 1.00 FJ.E Loader, T.M. 1.91 CUM	ō :⊌	7.00	e 75	4 923
				2.00 Dump Trucks 10 Ton	- 1		i	

001	02 : SITE WORK		005W				
CSI CODE	ITEM DESCRIPTION	UNIT	STRUCTURE	D.O. MIN.	D.O. MAX.	D.O. AVRG	AVRG. E.H.
020 716-0500	Gutting building interior,including disposal,residential buildings,average	SQM	0.125 Labor Foreman 2.000 Building Labors 1.000 Truck Driver 1.000 Dump Truck 10 Ton	25.00	29.00	27.00	0.32
020 716-0600	Gutting building interior,including disposal,commercial buildings,average	300		20.00	23.00	21.50	0.40
020 718	HVAC DEMOLITION:			-10			
020 718-0150	Demolition air conditioning package unit,rooftop	EA	0.125 Skilled Foreman 2.000 Steamfitters 1.000 Laborer 2.000 Tool Sets	0.25	0.30	0.28	64.00
020 718-1500	Demolition ductwork, 750 mm high, 900 mm wide	LM	1.000 Laborer 1.000 Tool Set	15.00	17.00	16.00	0.53
020 718-1540	Demolition ductwork, 750 mm high, 1.8 m wide		#10	12.00	14.00	13.00	0.66
020 724	PLUMBING DEMOLITION:						
020 724-1100	Demolition bath tub,cast iron with average of 3 m piping	EA	0 125 Skilled Foreman 1,000 Plumber 1,000 Laborer 1,000 Tool Set	6.00	7.00	6.50	1.33
020 724-1200	Demolition lavatory wall hung with 3 m average piping			14.00	16.00	15.00	0.57
020 724-1420	Demolition water closet wall hung with 3 m average piping			10.00	12.00	11.00	0.800
020 724-2000	Demolition piping upto 50 mm	LM	0.125 Skilled Foreman 2.00 Plumbers 1.00 Laborer 2.00 Tool Sets	100.00	115,00	107.50	0.160
020 724-2100	Demolition piping 50 - 200 mm	90		42.00	48.00	45.00	0.381
020 728	SAW CUTTING:						
020 728-0020	Saw cutting asphalt over 300 LM; 75 mm deep	LM	0.125 Foreman 1.000 Equip Operator 1.000 Truck Oriver 1.000 Truck 3 Ton 1.000 Concrete Saw 1.000 Water Tanker	200.00	230.00	215.00	0,120
020 728-0400	Saw cutting concrete slab ,with mesh reinforcement, per 25 mm depth			250.00	288.00	269.00	0.096
020 728-0800	Saw cutting,concrete wall ,reinforced per 25 mm depth		0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Building Laborer 1.000 Concrete Saw	45.00	52.00	48.50	0.178
020 750	CONCRETE REMOVAL						
020 754	FOOTINGS AND FOUNDATIONS DEMOLITION:						
020 754-1000	Demolition of reinforced concrete footing	CUM	0.250 Labor Foreman 4.000 Building Laborers 1.000 Equip. operator, light 1.000 Equip. operator, heavy 1.000 Air compressor, 250 CFM w/ 4 air Tools & Hoses 1.000 Mechanic 1.000 F.E Loader, 1.9 M3	18.00	21.00	19.50	0.889
020 754-1220	Demolition of concrete footing with heavy reinforcement			12.00	14.00	13.00	1.333
020 880	REMOVAL OF UNDERGROUND STORAGE TANKS:						
020 880-0120	Remove fuel tank including excavation & loading on trailer,capacity upto 8000 gallon	EA	0.125 Labor Foreman 4.000 Laborers 1.000 Equip. Operator 1.000 Backhoe Loader, 50HP	3.00	3.00	3.00	2.667
020 880-0130	Remove fuel tank including excavation & loading on trailer,capacity 8001 to 11,000 gallon	**		2.00	2.00	2.00	4.000
ALC: N	SITE PREPARATION:					4	
21 100	SITE CLEARING			-		24	
21 144	STRIPPING:						
21 144-0010	Stripping top soil to 150 mm deep, and stock piling, sandy loam soil, with 200 HP dozer, normal conditions	CUM	1.00 Equip, operator 1.00 Building Laborer 1.00 Dozer, 200 HP	1,400.00	1,610.00	1,505.00	0.006
	Stripping top soil to 150 mm deep, and stockpiling, sandy loam soil, with 200 HP dozer, adverse conditions			700.00	805.00	752.50	0.011
21 144-0200	Stripping top soil to 150 mm deep, and stockpiling, clay dry and soft soil, with 200 HP dozer normal conditions			1,000.00	1,150.00	1,075.00	0.008
21 144-0600	Stripping top soil to 150 mm deep, and stockpiling, clay dry and soft soil, with 200 HP dozer, adverse conditions.			500.00	575.00	537.50	0.016
21 144-0200	Stripping top soil to 150mm deep, and stockpiling, very hard soil, with 320 HP dozer,			800.00	920.00	860.00	0.010
	adverse conditions. STRUCTURE MOVING		*			12112011	
	MOVING BUILDINGS:						
	Moving Buildings: Move & set on ready foundation, prefabricated building 7.3 m wide, 12 m long	EA	0.125 Labor Foreman 1.000 Equip. operator 4.000 Building Laborers 1.000 Crane 23 Ton	1.00	1.00	1.00	16.000

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Division 02 : SITE WORK CSI CREW DO. AVRG ITEM DESCRIPTION UNIT D.O. MIN. D.O. MAX. CODE STRUCTURE AVRG E.H. 021 400 DEWATERING 021 404 DEWATERING: .00 Equip Oper.(med.) 021 404-0100 Excavate drainage trench, 600 mm wide, 900 mm deep, with backhoe loader 120.00 138.00 120 00 1.00 Laborer 0.063 .00 Backhoe Loader,35 kW 0 125 Labor Foreman 2,000 Building Labors 021 404-1400 Re-lay, corrugated metal pipe, including excavation 1m deep. 450 mm diameter (18") 50.00 58.00 54.00 0.160 1,000 Light Equip. Operator 1,000 Backhoe loader, 50 HP 021 404-1700 Lay, corrugated metal pipe, including 300 mm collar gravel and 1 m deep excavation, 30.00 35:00 32.50 0.267 pipe 300 mm diameter, 16 ga Lay, corrugated metal pipe, including 300 mm collar gravel and 1 m deep excavation, 021 404-1900 24 00 28.00 26.00 0.333 pipe 450 mm diameter, 16 ga 021 404-2000 Lay, corrugated metal pipe, including 300 mm collar gravel and 1 m deep excavation, 20.00 23.00 21.50 0.400 pipe 600 mm diameter, 16 ga 021 404-2100 Sump hole pit construction, including excavation and gravel CUM 31.58 36.00 33.70 0.255 WELLPOINTS 021 440 021 444 WELLPOINTS: 0.500 Skilled Foreman 021 444-0400 Welipoints, pump operation, 4 shifts, 6 hours each, 24 hours daily 4 000 Skilled Workers DAY 1.00 1.00 1.00 8.000 .000 Tools Set 0.500 Skilled Forema 4 000 Skilled Workers Complete well point installation, including first month operation for 24 hrs daily, fuel. 30 0.500 Truck Driver 021 444-0700 m long header 150 mm dia., at 1.5 m o.c., ground water level at 2.4 m, excavation depth 1.000 Common labore 1 35 2.00 1.68 8.889 HEADER 0.500 Auger Drill 0.500 Bed Truck 0.500 Tools Set Complete well point installation, including first month operation for 24 hrs daily, fuel. 80 021 444-1000 m long header 200 mm dia., well points 50 mm dia, at 1.5 m O.C, ground water level at 2.76 3.00 2.88 4.348 2.4 m, excavation depth 8.5 meters Complete well point installation, including first month operation for 24 hrs daily, fuel. 160 021 444-1300 m long header 200 mm dia., well points 50 mm dia, at 1.5 m O.C, ground water level at 3 01 5.00 4 46 6.138 2.4 m, excavation depth 8.5 meters Complete well point installation, including first month operation for 24 hrs daily, fuel. 220 021 444-1500 m long header 200 mm dia., well points 50 mm dia, at 1.5 m O.C. ground water level at 4.46 5.00 4 73 5.381 2.4 m, excavation depth 8.5 meters Complete well point installation, including first month operation for 24 hrs daily, fuel. 300 021 444-1600 m long header 200 mm dia., well points 50 mm dia, at 1.5 m O.C., ground water level at 4.01 5.00 5.985 2.4 m, excavation depth 8.5 meters 021 610 SHEET PILING 021 614 SHEET PILING .500 Skilled Foremer 4.000 Pile Drivers 1.000 Equip, Oper, Light 021 614-0300 Sheet piling steel,including wales, 130 kg/m2; 6m deep excavation, left in place 1.000 Equip: Oper.Heavy 9.12 11.00 10.06 1.864 1.000 Crane,36 metric ton 0.625 Vibratory Hammer & Gen. 0.5000 Bed Truck 021 614-0400 Sheet piling steel,including wales, 130 kg/m2; 6m deep excavation, including pull out 7.16 8.00 2.374 7.58 021 614-0600 Sheet piling steel,including wales, 156 kg/m2; 7.6m deep excavation, including pull out 9.85 11.00 10.43 1.726 021 614-1000 Sheet piling steel,including wales, 185 kg/m2; 12 m deep excavation,including pull out 9.04 11.00 10.02 1.881 021 614-1200 Sheet piling steel,including wales, 107 kg/m2; 4.5 m deep excavation,including pull out 62.14 71.00 66.57 0.274 021 614-1500 Sheet piling steel,including wales, 130 kg/m2; 6 m deep excavation,left in place 77.64 72.28 83.00 0.235 021 614-1600 Sheet piling steel,including wales, 130 kg/m2; 6 m deep excavation, including pull out 60.79 56.57 65.00 0.301 021 614-1800 Sheet piling steel including wales, 156 kg/m2; 7.6 m deep excavation, left in place MET.TON 80.57 93.00 86.79 0.211 021 614-1900 Sheet piling steel, including wales, 156 kg/m2; 7.6 m deep excavation, pull & salvage SOM 63.48 73.00 68.24 0.268 021 614-2000 Sheet piling steel,including wales, 185 kg/m2; 12 m deep excavation, including pull out 56.57 65.00 60.79 0.301 125 Foreman 1.000 Laborer 021 614-3910 Wood solid sheeting including wales, braces and spacers, pull & salvage, 2.4 m deep. 0.6 m wide excavation 13.93 500 Truck Drive: 16.00 14.97 0.861 1.000 Air Compressor 354 L/s W attachments 0.500 Truck 3 Ton, Handling 021 614-4000 Wood solid sheeting including wales, braces and spacers, pull & salvage, 3 m deep, 1.2 13.27 15.60 14 14 0.904 m wide excavation Wood.solid sheeting,including wates, braces and spacers, pull & salvage, 4.3 m deep. 021 614-4200 11.55 13 00 12 28 1.039 1.8 m wide excavation Wood.solid sheeting,including wales,braces and spacers,pull & salvage, 5.3 m deep, 021 614-4300 10.04 11.02 1.195 12.00 1.80 m wide excavation 021 614-4500 Wood Suite Scavation Wood.solid sheeting, including wales, braces and spacers, pull & salvage, 6.0 m deep, 8.03 9.00 8.52 1.494

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CODE	ITEM DESCRIPTION	UNI	т	CREW STRUCTURE	D.O. MIN.	D.O. MAX.	D.O. AVRG	AVRG. E.H.
021 614-4570	Wood.solid sheeting,including wales,braces and spacers, left in place, 4.90 m deep,	+	+	STRUCTURE	18.71	22.00	0.0000000000000000000000000000000000000	19-26-01-59
area in saving A leges	1.80 m wide excavation Wood solid sheeting including wales braces and spacers, left in place 6.00 m deep	+	-			QR(#1000)	20.36	0.64
021 614-4590	2.40 m wide excavation		_		14.31	16.00	15.16	0.83
021 614-6000	pull & savage , 4.90 m deep, excavation				4.37	5.00	4.69	2,74
021 614-6200	Wood, solid sheeting for basement excavation, including wales, braces and spacers, pull & savage, 6.00 m deep, excavation			L. I	3.89	4.00	3.95	3.08
021 680	SLURRY WALL	1		•				
021 684	SLURRY TRENCH:		110					
021 684-0050	no reinforcing steel,average	CUM		0.125 Labor Foreman 4,000 Laborers 1,000 Cement Finisher 1,000 Equip, Operator 2,000 Gas Engine Vibrators 6,000 Hyd. Crane, 23 metric ton	5.00	6.00	5.50	4.80
022	EARTHWORK:							
022 100	GRADING							
	Site excavation & fill, see div. 022-200						-	
CANDALLY SOMEWARE FRAN	Fine grading see div.025-122		_					
022 200	EXCAVATING, BACKFILLING & COMPACTING BACKFILL:		_					
	Backfill by hand light soil	CUM	T	.00 Common Laborer	10.00	12.00	11.00	0.800
		CUM	-	.00 Tool Set .00 Common Laborer	7.00	8.00	7.50	1.14
	Backfill by hand heavy soil Backfill light soil by hand & compaction in 150 mm layers, hand tamp, soft soil	COM	+	.00 Tool Set	5.83	7.00	6.42	1.372
ess, even an energy of	Backfill light soil by hand & compaction by roller		1	.00 Common Laborer .00 Equip. operator .00 Tools Set	15.56	18.00	16.78	1.028
022 204-0600	Backfill light soil by hand & compaction by vibrating pate		1	.00 Roller Compact, 1000 kg .000 Common laborer .000 Equip. operator .000 Tools set	13.33	15.00	14.17	1.200
022 208	BACKFILL STRUCTURAL:			.000 Gas engine vibrating plate	L			
022 208-2000	Backfill from existing stockpile,no compaction,by 75 Hp dozer; 15 Lm haul, sand & gravel	CUM	0	.00 Equip. Operator .05 Building Laborer .00 Dozer, 75 HP	373.00	429.00	401.00	0.021
022 208-2020	Backfill from existing stockpile,no compaction,by 75 Hp dozer; 15 Lm haul, common earth		T		315.00	362.00	338.50	0.025
022 208-2040	Backfill from existing stockpile,no compaction,by 75 Hp dozer; 15 Lm haul, clay earth		1		280.00	322.00	301.00	0.029
	Backfill from existing stockpile,no compaction,by 75 Hp dozer; 100 Lm haul, clay earth	\vdash	1		106.00	122.00	114.00	0.075
022 200 0040	Backfill from existing stockpile,no compaction,by 225 Hp dozer; 15 Lm haul, sand &	1	1	.00 Equip. Operator	1,92,03		775.00	0.070
022 208-4000	gravel			.05 Building Laborer .00 Dozer, 225 HP	987.00	1,135.00	1,061.00	0.008
22 208-4020	Backfill from existing stockpile,no compaction,by 225 Hp dozer; 15 Lm haul, common earth				854.00	982.00	918.00	0.009
022 208-4040	Backfill from existing stockpile,no compaction,by 225 Hp dozer; 15 Lm haul, clay earth		T		752.00	865.00	808.50	0.011
022 208-4400	Backfill from existing stockpile,no compaction,by 225 Hp dozer; 100 Lm haul, sand &		1		316.00	363.00	339.50	0.025
1	gravel For Compaction See Div. 022226	+	1		7.175	220,26		=15.6%
	For Trench Backfill See Div. 022254 & 258		-					
022 212	BORROW:	-						
022 212-4070	Bowwor common earth, shovel, 2 CUM bucket,no haul,bank measure	CUM	0 2	.250 Equipment Operator .000 Truck Drivers .500 Common Laborers .000 Dump Truck .250 Power shovel, 2 m3 bucket	500.00	575.00	537.50	0.036
022 212-7020	Borrow topsoil or loam from stockpile, shovel, 2 CUM bucket, no haul, bank measure	5.5		•	1,100.00	1,265.00	1,182.50	0.016
22 226	COMPACTION:							
22 226-5000	Compaction by riding, vibrating roller, 150 mm lifts, 2 passes, more than 300 cum	CUM	1 0 1	.000 Equip. operator .000 Truck Driver .500 Building Laborer .000 Vibratory drum roller, .100 HP .000 Water Tankér .25 M3	1,500.00	1,725.00	1,612.50	0.011
22 226-5020	Compaction by riding, vibrating roller, 150 mm lifts, 3 passes		1		1,000.00	1,150.00	1,075.00	0.016
DATES OF THE SEC	Compaction by riding vibrating roller, 150 mm lifts, 4 passes		+		750.00	863.00	806.50	0.021
	Compaction by riding, vibrating roller, 300 mm lifts, 2 Passes		+		3,000.00	3,450.00	3,225.00	0.005

CSI CODE	ITEM DESCRIPTION	UNIT	. CREW STRUCTURE	D.O. MIN.	D.O. MAX.	D.O. AVRG	AVRG. E.H.
022 226-5080	Compaction by riding, vibrating roller, 300 mm lifts, 3 passes	\top	v-concension states th	2,000.00	2,300.00	2,150.00	0.00
	Compaction by riding vibrating Roller, 300 mm Lifts, 4 Passes			1,500.00	100000000000000000000000000000000000000	1,612.50	0.01
022 226-6200	Compaction by towed vibrating roller, 150 mm Lifts, 2 passes		1.00 Equip. Operator 1.00 Truck Driver 0.50 Building laborer 1.00 Sheeptoot Roller, 300 HP 1.00 Water Tanker, 25M3	750.00	863.00	806.50	0.02
022 226-6220	Compaction by towed vibrating roller, 150 mm Lifts, 4 passes			375.00	431.00	403.00	0.043
022 226-6260	Compaction by towed vibrating roller, 300 mm Lifts, 2 passes			3,000.00	3,450.00	3,225.00	0.005
022 226-7500	Compacting vibrating roller, 600 mm wide,150 mm lifts, 2 passes			1,600.00	1,840.00	1,720.00	0.010
022 226-7540	Compacting, vibrating roller, 600 mm wide,150 mm lifts, 4 passes			800.00	920.00	860.00	0.020
022 226-7640	Compacting vibrating roller, 600 mm wide, 300 mm lifts, 4 passes		.	1,600.00	1,840.00	1,720.00	0.010
022 226-8600	Compaction by rammer tamper, 300 to 450 mm, 200 mm lifts, 2 passes		1.00 Building Labor 1.00 Gas Engine, Power Tool	100.00	115.00	107.50	0.080
022 230	DRILLING:		1,00 das Englie, Power 100:	-			
022 230-0010	Drilling Hole Only 50 mm for Rock Bolts, hard rock, Average	LM	0,125 Blast foreman 1,000 Equip Operator Light 1,000 Common Laborer 1,000 Crawler Type Drill,102mm 1,000 Air Compressor 283,2 L/s with 15m Hoses, 76 mm dia	35.00	40.00	37,50	0.457
022 230-0100	Drilling only in open rock face by,jackhammer, easy rock.			85.00	98.00	91.50	0.188
022 230-0110	Drilling only in open rock face by,jackhammer, moderate rock			70.00	81.00	75.50	0.229
022 230-0120	Drilling only in open rock face by jackhammer, dense rock		1	30.00	35.00	32.50	0.533
022 234	DRILLING & BLASTING:	to the					
022 234-0100	Drilling & blasting only, in open rock face, moderate rock, over 1000 CUM	CUM	1.000 Equip. Operator Light 1.000 Truck Driver 2.000 Common Laborer 1.000 Crawler Type Drill, 102mm 1.000 Air Compressor 283.2 L/s with 15m Hoses, 76 mm dia 1.000 Bed Truck	89.42	103.00	96.21	0.268
022 234-0120	Content, capacity, reduction could be between 15 % to 60 % less than sand soil			94.02	108.00	101.01	0.255
022 234-0140	Drilling & Blasting only, in open rock face, dense rock, over 1000 cum			65.27	75.00	70.14	0.368
022 234-1300	Drilling & blasting only,in open rock face, moderate rock,over 1000 CUM, deep hole method			26.83	31.00	28.92	0.895
022 234-1900	Drilling & blasting only, in open rock face, moderate rock, over 1000 CUM, restricted			6.72	8.00	7.36	3.571
022 238	EXCAVATING, BULK BANK MEASURE:	*	<u> </u>		3/55		
	Excavation only hulk hank measure by grawler excavator hydraulic self-propelled		1.00 Equip. Operator				
022 238-0200	0.76 cum capacity in common earth. Excavation only, bulk bank measure, by crawler excavator, hydraulic, self-propelled.	CUM	1.00 Hydraulic Excavator 0.76 cum	308.00	354.00	331.00	0.026
022 238-0210	0.76 cum capacity in soft earth.			362.00	416.00	389.00	0.022
022 238-0220	Excavation only, bulk bank measure, by crawler excavator, hydraulic, self- propelled, 2.29 cum capacity in common earth.			262.00	301.00	281.50	0.031
022 238-0300	Excavation only,bulk bank measure,by backhoe,hydraulic,crawler Mtd. 2.29 CUM capacity in common earth		1 Equip. Operator 1 Hydraulic Excavator 2.29 CUM	926.00	1,065.00	995.50	0.009
022 238-0360	Excavation only, bulk bank measure by Wheel Mtd. excavator 0.57 m3 capacity in		2 Equip. Operator	186.00	214.00	200.00	0.043
022 238-0380	common earth Excavation only,bulk bank measure by Wheel Mtd. excavator 0.57 m3 capacity in heavy	-	1 Hydraulic Excavator 0,57CUM	/Marenseriiii	Lincons		
UZE 230-0360	soil and stiff clay	-	1.00 Equip Operator	158.00	182.00	170.00	0.051
022 238-0500	Excavation only, bulk bank measure, by crawler clamshell excavator, hydraulic, 0.76 cum capacity in common earth.		1.00 Clamshell Excavator 0.57cum	212.00	244.00	228.00	0.038
	Excavation only, bulk bank measure, by crawler clamshell excavator, hydraulic, 0.76 cum capacity in sand and gravel earth			239.00	275.00	257.00	0 033
	Excavation only, bulk bank measure, by crawler clamshell excavator, hydraulic, 0.76 cum capacity in soft earth			250.00	288.00	269.00	0.032
	Excavation only, bulk bank measure, by crawler clamshell excavator, hydraulic, 1.15 cum capacity in common earth		1.00 Equip. Operator 1.00 clamshell Excavator 1.15cum	320.00	368.00	344.00	0.025
022 238-0700			1.00 Equip. Operator 1.00 Shovel 0.57 cum w/attachment 0.57 cum	290.00	334.00	312.00	0.028
5-5-1	Excavation only, bulk bank measure, by Power Shovel, 0.57 M3 capacity in M3				Annual Control of the		
022 238-3750	Excavation only, bulk bank measure, by Power Shovel, 0.57 M3 capacity in M3 Excavation only, bulk bank measure, by Power Shovel, 0.57 M3 capacity in soft soll	+		341.00	392.00	300.50	0.723
022 238-3750 022 238-3760	Excevation only, bulk bank measure, by Power Shovel, 0.57 M3 capacity in soft soll Excevation only, bulk bank measure, by Power Shovel, 0.57 M3 capacity in heavy soil or		William Color Color Color	341.00 247.00	392.00 2 ₆ 4.00	366.50 265.50	
022 238-3750 022 238-3760 022 238-3770 022 238-3900	Excevation only, bulk bank measure, by Power Shovel, 0.57 M3 capacity in soft soll		1.00 Equip. Operator 1.00 Shovel 1.15 cum w/attachment 1.15 cum			E	0.032 0.032

	02 : SITE WORK				5219424142		of the state	
CSI CODE	ITEM DESCRIPTION	UNIT	7.0	REW CTURE	D.O. MIN.	D.O. MAX.	D.O. AVRG	AVRG. E.H.
022 238-3940	Excavation only, bulk bank measure, by Power Shovel, 1.15 M3 capacity in poorly blasted rock soil				291.00	335.00	313.00	0.02
022 238-3960	Excavation only bulk hank measure by Power Shove: 1.15 M3 canacity in well blasted				437.00	503.00	470.00	0.018
022 238-4200	Excavation only, bulk bank measure, by Power Shovel, 1.90 M3 capacity in common earth		1.00 Equip. Ope 1.00 Shovel 1.9 w/attachme	,004.90000	962.00	1,106.00	1,034.00	0.008
022 238-4220	Excavation only, bulk bank measure, by Power Shovel, 1.90 M3 capacity in heavy soil or stiff clav				818.00	941.00	879.50	0.010
022 238-4240	Excavation only, bulk hank measure, by Power Shovel, 1,90 M3 canacity in well blasted				722.00	830.00	776.00	0.011
022 238-4300	Excavation only hulk bank measure by Power Shovel 2.20 M3 capacity in common		1.00 Equip Ope 1.00 Shovel 2.2 Wattachne		1,158.00	1,332.00	1,245.00	0.007
022 238-4500	Excavation only, bulk bank measure, by Power Showel,3.25 M3 capacity in common earth		1.00 Equip. Ope 1.00 Shovel 3.2 w/attachma		1,644.00	1,891.00	1,767.50	0.008
022 238-4520	Excavation only, bulk bank measure, by Power Showel,3.25 M3 capacity in common earth with rocks				1,069.00	1,229.00	1,149.00	0.007
022 238-4600	Excavation only, bulk bank measure, by Power Showel, 4.00 M3 capacity in common earth		1.00 Equip. Ope 1.00 Shovel 4.0 w/attachme		2,022.00	2,325.00	2,173.50	0.004
022 238-4620	Excavation only, bulk bank measure, by Power Showel, 4.00 M3 capacity in wet sticky clay earth.				1,112.00	1,279.00	1,195.50	0.007
022 238-4640	Excavation only, bulk bank measure, by Power Showel, 4.00 M3 capacity in poorly blasted rock earth				1,011.00	1,163.00	1,087.00	0.008
022 238-800	Loading Excavated Material On Trucks & Hauling Material To 32 Km Round Trip		0.250 Equip. Op 2.000 Truck Driv 0.500 Common I 2.000 Dump Tru 0.250 Power Sh Bucket	vers aborer ck 15 ton	128.00	147.00	137.50	0.141
022 238-8100	Loading Excavated Material On Trucks & Hauling Material To 64 Km Round Trip				66.87	77.00	71.94	0.269
022 238-8000	Loading Excavated Material On Trucks & Hauling Material To 60 Km Round Trip				53.98	62.00	57.99	0.333
022 242	EXCAVATING BULK DOZER, OPEN SITE:	W 100			VI.			
022 242-2000	Excavating only & haul in pile by dozer 75 HP, 15 meters haul, sand & gravel	CUM	1.00 Equip. Operator 0:50 Laborer 1.00 Dozer 75 HP		350.00	403.00	376.50	0.023
022 242-2020	Excavating only & haul in pile by dozer 75 HP, 15 meters haul, common earth	¥	1.00 00281 73 74		306.00	352.00	329.00	0.026
022 242-2040	Excavating only & haul in pile by dozer 75 HP, 15 meters haul, clay earth	CUM	1.00 Equip. Ope 0.50 Laborer 1.00 Dozer 75 H	196 196	214.00	246.00	230.00	0.037
022 242-2440	Excavating only & haul in pile by dozer 75 HP, 90 meters haul, clay earth				41.00	47.00	44.00	0.195
022 242-4000	Excavating only & haul in pile by dozer 200 HP, 15 meters haul, sand and gravel		1.00 Equip. Oper 0.50 Laborer 1.00 Dozer 225	NORSE	823.00	947.00	885.00	0.010
022 242-4020	Excavating only & haul in pile by dozer 200 HP, 15 meters haul, common earth				720.00	828.00	774.00	0.011
022 242-4040	Excavating only & haul in pile by dozer 200 HP, 15 meters haul, clay earth				658.00	.757.00	707.50	0.012
022 242-4220	Excavating only & haul in pile by dozer 200 HP, 45 meters haul, common earth		+		219.00	252.00	235.50	0.037
022 242-6000	Excavating only & haul in pile by dozer 700 HP,15 meters haul, sand & gravel		1.00 Equip. Oper 0.50 Laborer 1.00 Dozer 700		4,704.00	5,405.00	5,054.50	0.002
022 242-6010	Excavating only & haul in pile by dozer 700 HP,15 meters haul, common earth				4,116.00	4,733.00	4,424.50	0.002
022 242-6020	Excavating only & haul in pile by dozer 700 HP,15 meters haul, clay earth				1,254.00	1,442.00	1,348.00	0.006
022 242-6030	Excavating only & haul in pile by dozer 700 HP, 45 meters haul, sand & gravel	+	ļ.,		784.00	902.00	843.00	0.010
022 250	EXCAVATING STRUCTURAL:							
022 250-0010	Excavating hand pits, to 2 Meter Deep, Sandy Soil	CUM	1 Common Labor 1 Tool set	rer:	4.50	5.00	4.75	1.778
022 250-0100	Excavating hand pits, to 2 meter deep, heavy or clay soil				3.50	4.00	3.75	2.286
022 250-0150	Excavating hand pits, to 2 meter deep, sandy soil, wet				2.25	3.00	2.63	3.556
22 250-020 0	Excavating Piers, to 1.8 meter deep, heavy or clay soil.				3.00	3.00	3.00	2.667
022 250-1550	Excavating hand pits in rocky area using air compressor		0.125 Labor Fore 2.000 Laborers 1.000 Air Compre with Hoses & Acc	essor 118 L/s	10.00	12.00	11.00	0.800
022 250-1580	Loading hauling trucks by labor from stockpile.		1 Common Labor 1 Tool set		8.00	9.00	8.50	1.000
	Machine excavation for spread, raft footings, elevator pits and small building foundation, common earth, hydraulic backhoe 1.15 M3		1 Equip Operato 1 Hydraulic Excar		163.00	187.00	175.00	0.049
	Machine excavation for spread, raft footings ,elevator pits				183.00	210.00	196.50	0.044
022 250-3030	and small building foundation,sand & gravel,hydraulic backhoe 1.15 M3 Machine excavation for spread,raft footings ,elevator pits and small building foundation,clay or blasted rock,hydraulic backhoe 1.15 M3	1			123.00	141.00	132.00	0.065
Control of the Contro	Trimming foundation & pit bottoms and sides.	SQM	1 Common Labor 1 Tool set	er	20.00	23.00	21.50	0.400
	the state of the s		1. 180.001					

CSI CODE	ITEM DESCRIPTION	UNI	Т	CREW STRUCTURE	D.O. MIN.	D.O. MAX.	D.O. AVRG	AVRG. E.H.
022 254	EXCAVATING TRENCH OR CONTINUOUS FOOTING: No Sheeting Or Dewatering Included:	1	_				IAMAN STATE	
022 254-0062	Excavating trench up to 1.2 meter deep, 0.57 M3 hydraulic backhoe,common earth	CUN	d	1 Equip. Operator 1 Hydraulic Excavator 0.57 CUM	232.00	267.00	249.50	0.03
022 254-0110	Excavating trench 1.20 to 2.00 meter deep, 0.57 M3 hydraulic backhoe,common earth			Trigature Excertator 2:27 con	186.00	214.00	200.00	0.04
Paraticando anterior	Excavating trench 2 to 3.00 meter deep, 0.57 M3 hydraulic backhoe,common earth				140.00	161.00	150.50	0.05
022 254-0610	Excavating trench 2 to 3.00 meter deep, 1.15 M3 hydraulic backhoe,common earth			1 Equip. Operator 1 Hydraulic Excavator 1.15 CUM	350.00	403.00	376.50	0.02
022 254-1000	Excavating trench 3 to 4.00 meter deep. 1.15 M3 hydraulic backhoe,common earth			1 Equip. Operator	306.00	352.00	329.00	0.02
upost by the one-sea	Excavating trench 3 to 4.00 meter deep, 2.29 M3 hydraulic backhoe,common earth	+	\rightarrow	1 Hydraulic Excavator 1,15 CUM 1 Equip. Operator	648.00	26048038	104620163	200000
	CONTRACTOR OF CONTRACTOR CONTRIBUTION OF STREET OF CONTRACTOR CONT	H	1	1 Hydraulic Excavator 2,67 CUM 1 Equip: Operator	VAANTA VIEW	745.00	696.50	0.01
022 254-1310	Excavating trench 4 to 6.00 meter deep, 1.15 M3 hydraulic backhoe,common earth			1 Hydraulic Excavator 1 15 CUM	268.00	308.00	288.00	0.03
022 254-1330	Excavating trench 4 to 6.00 meter deep,2.29 M3 hydraulic backhoe,common earth			Equip: Operator Hydraulic Excavator 2.29 CUM	567.00	652.00	609.50	0.01
022 254-1400	Excavating trench by hand with pick & shovel, 2 meter deep, light soil.			1 Common Laborer 1 Tool set	4.50	5.00	4.75	1.77
022 254-1700	For tamping backfilled trenches, air tamp add			1 Building Laborer 1 Gas Engine, Power Tool	35.00	40.00	37.50	0.22
022 254-1900	For tamping backfilled trenches, by vibrating plate add				30.00	35.00	32.50	0.26
022 254-2100	For trim sides & bottom of trench,common earth				20.00	23.00	21.50	0.400
022 254-3000	Backfill trench, F.E. loader, wheel Mtd. 0.76 M3 bucket, average haul area 30 meters			1 Equip. Operator 1 F.E. Loader, W.M.0.76 CUM	251.00	289.00	270.00	0.03
022 254-4000	Name of the second seco							
022 254-4010	For Compaction Of Backfill See Div. 022226							
022 258	EXCAVATING UTILITY TRENCH:							
022 258-0350	Excavating utility trench,common earth with chain trencher, 12 HP, 150 mm wide, 450 mm deep	LM		1 Equip Operator 1 Trencher, Chain, 12 HP (9 KW)	140.00	161.00	150.50	0.057
022 258-0700	Excavating utility trench,common earth with chain trencher, 12 HP, 200 mm wide, 600 mm deep	IT	1	THORESO, CHARLES (STATE)	125.00	144.00	134.50	0.064
022 258-0750	Excavating utility trench,common earth with chain trencher, 12 HP, 200 mm wide, 900 mm deep		Ī		75.00	86.00	80.50	0.107
022 258-1350	Backfill utility trench 150 mm wide, 450 mm deep,by hand including compaction	\vdash		Building Laborer	148.00	170.00	159.00	0.054
022 258-1700	Backfill utility trench 200 mm wide, 600 mm deep,by hand including compaction	1	Ť	Gas Engine, Power Tool	83.00	95.00	89.00	0.096
022 258-1750	Backfill utility trench 200 mm wide, 900 mm deep,by hand including compaction	LM		Building Laborer Gas Engine, Power Tool	56.00	64.00	60.00	0.143
022 258-2150	Excavating utility trench, common earth with chain trencher, operator riding, 40 HP,150 mm wide, 600 mm deep	T	1	Equip. Operator Trencher, Chain, 40 HP (30 KW)	245.00	282,00	263.50	0.033
022 258-2600	Excavating utilify trench,common earth with chain trencher,operator riding, 40 HP, 200 mm wide, 1200 mm deep		1	Equip. Operator Trencher, Chain, 40 HP (30 KW)	185.00	213.00	199.00	0.043
	Excavating utility trench, common earth with ditching M/C, 135 HP, crawler, 400 mm wide, 2400 mm deep.		1	Equip Operator Ditching Trencher, 135 HP	185.00	213.00	199.00	0.043
022 262	FILL:		_1'	Chicking Hericher, 135 HF				
		2200		Equip Operator			2022	933
JZZ 262-0010	Spread fill dumped material, by dozer, no compaction	CUM	1	5 Laborer Dozer 200 HP	700.00	805.00	752.50	0.011
22 262-0100	Spread fill dumped material, by hand, no compaction		1	Common Laborer Tool set	6.50	7.00	6.75	1,231
022 262-0190	Spread fill dumped material from a stockpile with dozer, 300 HP, 90 m haul		1.5	Equip: Operator 5 Labor Dozer, 300HP (224KW)	666.00	766.00	716.00	0.012
22 262-0500	Gravel fill compacted under floor slabs, 100 mm deep		4	Labor Foreman- Laborers Equip. Operator Tandem Roller 4.5 Ton	750.00	862.00	806.00	0.011
	Alternate pricing method, for gravel fill per M3, gravel fill compacted under floor slabs, 300 mm deep		Ť		75.00	86.00	80.50	0.107
	For Fill Under Exterior Paving See Div. 022308		_					7070537
77 7hh	HAULING: Avg Speed 40 Km/Hr, Highway Hauler. Bank	77						
	MeasureIncluding Loading		-					
	Hauling excavated or borrow material, 4.58 M3 dump truck, swell factor 20%, round trip. 10 Km	СИМ	0.	000 Truck Driver 125 Equipment Operator 500 Truck Driver 000 Dump Truck 5 CUM CAP 125 Shovel, Bucket 2,92 CUM	37.00	43.00	40.00	0.243
22 200-0230	Hauling excavated or borrow material, 4.58 M3_dump truck, swell factor 20%, round trip 24 Km.				19.50	22 00	20.75	6.460
22 266-0250	Hauling excavated or borrow material, 4.58 M3 dump truck, swell factor 40%, round trip 50 Km		1		15.50	18.00	16.75	0.581
22 266-0545	Hauling excavated or borrow material, 9.17 M3 dump truck, swell factor 20%, round trip 10 Km		1		83.00	95.00	89.00	0.108
	Hauling excavated or borrow material, 9.17 M3 dump truck, swell factor 20%, round trip		+		3 642 300		150010000	

-33	n 02 : SITE WORK					KAN SHETS		
CODE	ITEM DESCRIPTION	וואט	STRU	REW ICTURE	D.O. MIN.	D.O. MAX.	D.O. AVRG	AVRG. E.H.
022 266-1245	Hauling excavated or borrow material, 15.28 M3 dump truck, swell factor 20%, round trip 10 Km		1.000 Truck Dri 0.250 Equipme 0.500 Truck Dri 1.000 Dump Tri 0.250 Shovel, I	nt Operator ver	298.00	343.00	320.50	0.03
022 266-1250	Hauling excavated or borrow material, 15,28 M3 dump truck,swell factor 40%, round trip 24 Km				145.00	167.00	156.00	0.06
022 266-1255	Hauling excavated or borrow material, 15.28 M3 dump truck, swell factor 20%, round trip				112.00	129.00	120.50	0.08
022 266-1270	Hauding avacuated or horrow material 15 20 M2 dump trust qualiforator 2001, sound trip				74.00	85.00	79.50	0.13
022 266-1280	Hauding averaged or harrow material 15 29 M2 drame truck good feature 400' round trie				75.00	86.00	80.50	0.13
022 266-1290	Hauling executed or horrow material 15 98 m3 dump truck qualificator 9097 round				48.00	55.00	51.50	0.20
022 266-1300	Hauling excavated or borrow material, 15.28 M3 dump truck, swell factor 20%, round trip				48.00	55.00	51.50	0.20
022 266-3000	50 Km, medium traffic, 25 km/hr. Hauling excevated or borrow material 15 39 M3 dump truck evall factor 40%, round trip		1		30.00	35.00	Non-rate 1	1-50806
	50 Km, heavy traffic 15 km/hr.	•		·	30.00	35.00	32.50	0.333
022 286	Remove and stocknills learn as topped on alter 200 HP deves		1Equip Operato		r			
022 286-0100	150 mm deep, 90 meters haul	CUM	0.5 Laborer 1 Dozer 200 Hp		205.00	236.00	220.50	0.039
022 286-0400	Spread loam or topsoil from stockpile to rough finished grade, with 1.15 CUM F.E. loader		1 Equip. Operato 1 F.E. Loader, V		146.00	168.00	157.00	0.055
022 286-0500	Spread loam or topsoil from stockpile to rough finished grade, up to 60 M radius, by hand		1 Common Labo 1 Tool set	rer	7.50	9.00	8.25	1.067
022 300	PAVEMENT BASE:							
022 304	BASE:							
022 304-0010	Prepare and rolli Sub-base, small areas upto 2000 SQM	SQM	0.250 Labor Foreman 0.125 Surveyor 1.000 Laborer 3.000 Equipment Operator 1.000 Grader 1.000 Tandem Roller, 9 ton 1.000 Dozer 200 HP 1.000 Water Tanker		943.00	1,084.00	1,013.50	0.034
022 304-0100	Prepare And Roll Sub-base, large areas above 2000 SQM	*:			1,886.00	2,169.00	2,027.50	0.017
022 308	BASE COURSE: FOR ROADWAYS AND LARGE PAVED AR	EAS	41:					
022 308-0100	Base course, 20 mm Stone,compacted, for paved & large areas, 150 mm deep	SOM	0.250 Labor Foreman 0.125 Surveyor 2.000 Laborer 3.000 Equipment Operator 1.000 Aggregate Spreadet 1.000 Tandem Roller, 9 ton 1.000 Dozer 225 HP 1.000 Water Tanker		2,084.11	2,397.00	2,240.56	0.015
022 308-0300	Alternate pricing for base course, 20 mm stone, compacted, per CUM	CUM	0.250 Labor For 0.125 Surveyor 2.000 Laborer 3.000 Equipment 1.000 Aggregate 1.000 Tandem R 1.000 Dozer 225 1.000 Water Tan	Operator Spreader oller, 9 ton HP	1,498.98	1,724.00	1,611.49	0.021
22 308-0303	Base course, crushed 40 mm stone, compacted, for paved & large area, 200 mm deep				1,237.55	1,423.00	1,330.28	0.026
22 308-0320	Alternate pricing for base course, crushed 40 mm stone, compacted, per CUM	1			1,286.00	1,479.00	1,382.50	0.025
022 308-0350	Base course,bank run gravel, spread and compacted, 200 mm deep	SQM	0.250 Labor Ford 0.125 Surveyor 1.000 Laborer 3.000 Equipment 1.000 Grader 1.000 Tandern Rd 1.000 Dozer 200 1.000 Water Tan	Operator Ner, 9 ton HP	2,458.26	2,827.00	2,642.63	0.013
22 308-0500	Base course bituminous concrete, 100 mm thick		0.375 Labor Fore 1.000 Surveyor 7.000 Laborers 3.000 Equip. ope 1.000 Asphalt per 1.000 Tandem Rd 1.000 Roller, Pne	man rator ver eler, 9 ton	2,577.00	2,964.00	2,770.50	0.009
22 308-0560	Base course bituminous concrete, 250 mm thick	+			1,546.00	1,778.00	1,662.00	0.016
22 308-0600	For cold laid asphalt pavement, See Div. 022116							
	Liquid application to gravel base, asphalt emulsion	GAL	0.125 Labor Fore 2.000 Common L 1,000 Truck Drive	aborer	5,000.00	5,750.00	5,375.00	0.002
22 308-0700					1		1	
	Liquid application prime & seal cut back asphalt	344	1.000 Asphalt Tai		5,000.00	5,750.00	5,375.00	0.002

22 306-1501 Alternate pricing for base course 20 mm stone, compacted. 150 mm thick, per CUM 23 306-1511 Alternate pricing for base course. 20 mm stone, compacted. 150 mm thick, per CUM 25 306-1511 Alternate pricing for base course. 20 mm stone, compacted. 150 mm thick, per CUM 26 306-1511 Alternate pricing for base course. 20 mm stone, compacted. 20 mm thick, per CUM 27 306-1511 Alternate pricing for base course. 20 mm stone, compacted. 20 mm thick, per CUM 28 306-1512 Alternate pricing for base course. 20 mm stone, compacted. 20 mm thick, per CUM 29 306-1512 Alternate pricing for base course. 20 mm stone, compacted. 20 mm thick, per CUM 20 306-1513 Alternate pricing for base course. 20 mm stone, compacted. 20 mm thick, per CUM 20 306-1510 Alternate pricing for base course. 20 mm stone, compacted. 20 mm thick, per CUM 20 306-1510 Alternate pricing for base course. 20 mm stone, compacted. 20 mm thick, per CUM 20 306-1510 Alternate pricing for base course. 20 mm stone, compacted. 20 mm thick, per CUM 20 306-1510 Alternate pricing for base course. 20 mm stone, compacted. 20 mm thick, per CUM 20 306-1510 Alternate pricing for base course. 20 mm stone, compacted. 20 mm thick, per CUM 20 306-1510 Alternate pricing for base course. 20 mm stone, compacted. 20 mm thick, per CUM 20 306-1510 Alternate pricing for base course. 20 mm stone, compacted. 20 mm thick, per CUM 20 306-1510 Alternate pricing for base course. 20 mm stone, compacted. 20 mm thick, per CUM 20 306-1510 Alternate pricing for base course. 20 mm stone, compacted. 20 mm thick, per CUM 20 306-1510 Alternate pricing for base course. 20 mm stone, compacted. 20 mm thick, per CUM 20 306-1510 Alternate pricing for base course. 20 mm stone, compacted. 20 mm thick, per CUM 20 406-000 Course flower. 20 mm thick, per CUM 20 406-000 Course flower. 20 mm thick, per CUM 20 406-000 Course flower. 20 mm thick, per CUM 20 406-000 Course flower. 20 mm thick, per CUM 20 406-000 Course flower. 20 mm thick, per CUM 20 406-000 Course flower. 20 mm thick	CSI CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D.O. MIN.	D.O. MAX.	D.O. AVRG	AVRG. E.H.
202 306-1517 Alternate pricing for base course, 20 mm stone, compacted, 150 mm thick, per CLIM 202 306-1518 Alternate pricing for base course, 20 mm stone, Compacted, 250 mm thick, per CLIM 202 306-1519 Alternate pricing for base course, 20 mm stone, Compacted, 250 mm thick, per CLIM 202 306-1519 Alternate pricing for base course, 20 mm stone, Compacted, 250 mm thick, per CLIM 202 306-1519 Alternate pricing for base course, 20 mm stone, compacted, per CLIM 202 306-1520 Alternate pricing for base course, 20 mm stone, compacted, per CLIM 202 306-1520 Alternate pricing for base course, pricing for base course bluminous concrete, metric ton, average thickness 202 306-1520 Alternate pricing for base course bluminous concrete, metric ton, average thickness 203 306-1520 Alternate pricing for base course bluminous concrete, metric ton, average thickness 204 306-1520 Alternate pricing for base course bluminous concrete, metric ton, average thickness 205 506-1520 Alternate pricing for base course bluminous concrete, metric ton, average thickness 206 007-1520 Alternate pricing for base course bluminous concrete, metric ton, average thickness 207 007-1520 Alternate pricing for base course bluminous concrete, metric ton, average thickness 208 007-1520 Alternate pricing for base course bluminous concrete, metric ton, average thickness 209 007-1520 Alternate pricing for base course bluminous concrete, metric ton, average thickness 200 007-1520 Alternate pricing for base course bluminous concrete, metric ton, average thickness 200 007-1520 Alternate pricing for base course bluminous concrete, metric ton, average thickness 200 007-1520 Alternate pricing for base course bluminous concrete, metric ton, average thickness 202 406-1520 Alternate pricing for base course bluminous concrete, metric ton, average thickness 203 007-1520 Alternate pricing for base course bluminous concrete, metric ton, average thickness 2	022 308-1200	Macadam penetration crushed stone, 18 liter/ M2, 200 mm thick	SQM		1,056.00	1,214.00	1,135.00	0.00
222 308-1810 Alternate pricing for base course, crushed 40 mm stone, compacted, per CUM 223 308-1820 Alternate pricing for base course, crushed 40 mm stone, compacted, per CUM 225 308-1820 Alternate pricing for base course bank run gravel, spread and compacted. 225 308-1820 Alternate base course bank run gravel, spread and compacted. 225 308-1820 Alternate base course bank run gravel, spread and compacted. 225 308-1820 Alternate base course bank run gravel, spread and compacted. 225 308-1820 Alternate pricing for base course bank run gravel, spread and compacted. 225 308-1820 Alternate pricing for base course bank run gravel, spread and compacted. 225 308-1820 Alternate pricing for base course bank run gravel, spread and compacted. 225 308-1820 Alternate pricing for base course bank run gravel, spread and compacted. 225 308-1820 Alternate pricing for base course bank run gravel, spread and compacted. 225 308-1820 Alternate pricing for base course bank run gravel, spread and compacted. 225 308-1820 Alternate pricing for base course bank run gravel, spread and compacted. 225 308-1820 Alternate pricing for base course bank run gravel, spread and compacted. 225 308-1820 Alternate pricing for base course bank run gravel, spread and compacted. 226 308-1820 Alternate pricing for base course bank run gravel, spread and compacted. 227 308-1820 Alternate pricing for base course bank run gravel, spread and compacted. 228 308-1820 Alternate pricing for base course bank run gravel, spread and compacted. 228 308-1820 Alternate pricing for base course bank run gravel, spread and compacted. 228 308-1820 Alternate pricing for base course bank run gravel, spread and compacted. 228 308-1820 Alternate pricing for base course bank run gravel, spread and compacted. 228 308-1820 Alternate pricing for base course bank run gravel, spread and compacted. 228 308-1820 Alternate pricing for base course bank run gravel, spread and compacted. 228 308-1820 Alternate pricing for base course bank run gravel, spread and co	022 308-1511	Alternate pricing for base course, 20 mm stone, compacted, 150 mm thick, per CUM	CUM	0.125 Surveyor 2.000 Laborer 3.000 Equipment Operator 1.000 Aggregate Spreader 1.000 Tandem Roller, 9 ton 1.000 Dozer 225 HP	312.62	360.00	336.31	0.10
222 308-1522 Attenuate prioring for base course, crushed-40 mm store, compacted, per CUM 0.250 Laber Ference 0.250 Laber Fer	022 308-1512	Alternate pricing for base course, 20 mm stone, Compacted, 230 mm thick, per CUM			344.76	396.00	370.38	0.093
222 406 - 1000 Soil STABILIZATION Solid Representation Soil Solid Representation Soil Solid Representation Soil Soil Solid Representation Soil S	022 308-1513	Alternate pricing for base course, 20 mm stone, compacted, 300 mm thick, perCUM			371.26	427.00	399.13	0.086
0.22 408-1600 Alternate base course bank run gravel spread and comparand 0.03 Substitution 0.00 Su	022 308-1522	Alternate pricing for base course, crushed 40 mm stone, compacted, per CUM		<u> </u>	257,20	296.00	276.60	0.124
202 406 -1870 Afternate pricing for base course bituminous concrete, metric ton, average thickness 100 Surveys 200 Easte coverage 100 Surveys 200 Easte coverage 100 Robers	022 308-1660	Alternate base course bank run gravel, spread and compacted.		0.125 Surveyor 1.000 Laborer 3.000 Equipment Operator 1.000 Grader 1.000 Tandem Roller, 9 ton 1.000 Dozer 200 HP	586.10	674.00	630.05	0.058
0.22 408-0200 GROUTINO PRESSURE:	022 308-1670		TON	1,000 Surveyor 7,000 Laborers 3,000 Equip, operator 1,000 Asphalt paver 1,000 Tandem Roller, 9 ton 1,000 Roller, Pneumatic Wheel	515.00	592.00	553.50	0.062
CLM SLate SLate Superior	022 400	SOIL STABILIZATION	nieson .					
C22 408-020 Grouting cement & sand 1:1 mix, average CLM Equip Coverage (15 mix) 5 00 6.00 5.50	022 408	GROUTING PRESSURE:						
222 408-0800 Soil stabilization, including scarriying compaction, asphalt 75 mm Soil Stabilization, including scarriying compaction, asphalt 75 mm Soil Stabilization, including scarriying compaction, asphalt 75 mm Soil Stabilization, including scarriying compaction, asphalt 200 mm Soil Stabilization, including scarriying compaction, cement 4% To Soil Stabilization, including compaction, cement 4% To Soi	022 408-0200	Grouting.cement & sand 1:1 mix.average	CUM	1 Equip.Oper.(light)	5.00	6.00	5.50	1.600
2,00.00 2,00			SOM	2.000 Common Laborers 3.000 Equipment Operators 2.000 Truck Drivers 1.000 Grader 13608 kg with ripper attachment 2.000 Stabilizers,310 HP 1.000 Truck 10 ton	2,200.00	2,530.00	2,365.00	0.018
1.650.00 1.698.00 1.774.00 1.650.00 1.698.00 1.774.00 1.650.00 1.698.00 1.774.00 1.650.00 1.698.00 1.774.00 1.650.00 1.698.00 1.774.00 1.650.00 1.698.00 1.774.00 1.650.00 1.698.00 1.774.00 1.650.00 1.698.00 1.774.00 1.650.00 1.698.00 1.774.00 1.650.00 1.698.00 1.774.00 1.650.00 1.698.00 1.774.00 1.698.00 1.774.00 1.698.00 1.774.00 1.698.00 1.774.00 1.698.00 1.774.00 1.698.00 1.774.00 1.698.00 1.698.00 1.774.00 1.698.00					2,000.00	2,300.00	2.150.00	0.020
1 Labor Foreman 2 Labore 4 Enaily Operator 3 Truck Driver 1 Grader 1360 Rg with ripper attributed 12% mix by volume, 150 mm deep. 860.00 920.00 920.00 920	022 408, 1000	Soil stabilization, including scarifying compaction, asphalt 200 mm	0-4		1,650.00	1,898.00	1,774.00	0.024
12% mix by volume, 300 mm deep. 12%		Soil stabilization, cluding scarifying compaction, cement 4% To	SQM	2 Labore: 4 Equip Operator 3 Truck Driver 1 Grader 13508 Kg with ripper attachment 1 Flat Truck, 3 Ton 1 Cement Spreader, Towed 1 Vibrating Roller 2 Stabilizers, 310 HP 1 Truck 27 Ton	800.00	920.00	860.00	0.080
022 408-3000 Geotextile fabric, woven, 90 Kg tensile strength. 022 408-3100 Geotextile fabric, woven, heavy duty, 270 Kg tensile strength. 022 408-3200 Geotextile fabric, non-woven, 55 Kg tensile strength. 1,500.00 1,725.00 1,612.50 1,600.00 1,725.00 1,612.50 1,600.00 1,725.00 1,612.50 1,600.00 1,840.00 1,720.00 1 Labor Foreman 2 Laborer 4 Equip Operator 3 Truck Driver 1 Grader 13608 Kg 150 mm deep 1,300.00 1,397.50 1,397.50 1,397.50 1,397.50 1,397.50 1,255.00 1,2				(*)	700.00	805.00	752.50	0.091
022 408-3100 Geotextile fabric, woven, heavy duty, 270 Kg tensile strength. 1,500.00 1,725.00 1,612.50 1,600.00 1,725.00 1,612.50 1,600.00 1,840.00 1,720.00 1,720.0				2,000 Common Laborers	1,600.00	1,840.00	1,720.00	0.010
1 Labor Foreman 2 Laborer 4 Equip Operator 3 Truck Driver 1 Grader 13608 Kg 1 Flat Truck 3 Ton 1,300.00 1,495.00 1,397.50 150 mm deep 1 Truck 27 Ton 1 Water Tank 20 CUM	022 408-3100	Geotextile fabric, woven, heavy duty, 270 Kg tensile strength.			1,500.00	1,725.00	1,612.50	0.011
2 Laborer 4 Equip Operator 3 Truck Driver 1 Grader 13608 Kg 1 Flat Truck 3 Ton 1,300.00 1,495.00 1,397.50 150 mm deep 1 Cement Spreader, Towed 1 Vibrating Roller 2 Stabilizers, 310 HP 1 Truck 27 Ton 1 Water Tank 20 CUM	022 408-3200	Geotextile fabric, non-woven, 55 Kg tensile strength,	Į.		1,600.00	1,840.00	1,720.00	0.010
			saw	2 Labore: 4 Equip. Operator 3 Truck Driver 1 Grader: 13608 Kg 1 Flat Truck, 3 Ton 1 Cement Spreader, Towed 1 Vibrahing Roller 2 Stabilizers, 310 HP 1 Truck 27 Ton	1,300.00	1,495.00	1,397.50	0.049
1000 mm deep				(E + 1)	1,100.00	1,265 00	11:25	1 653
022 700 SLOPE PROTECTION & EROSION CONTROL				L	L STATES	ussammen,	2010	





	1 02 : SITE WORK	STATE OF THE PARTY OF		STORE STORES	70.0473.5550	BATTER BOOK	
CODE	ITEM DESCRIPTION	TINU	STRUCTURE	D.O. MIN.	D.O. MAX.	D.O. AVRG	AVRG. E.H.
022 702-0010	Out drainage ditch in common earth,10 meters wide, 300 mm deep,including ditch cleaning	LM	0.125 Labor Foreman 1.000 Equipment Operator 2.000 Laborers 1.000 Grader, 13.6 Ton	1,800.00	2,070.00	1,935.00	0.00
022 704	EROSION CONTROL:						
022 704-0010	Jute mesh,1200 mm wide, 85 SQM /roll, stapled.	SOM	0.125 Labor Foreman 2.000 Common Laborers 2.000 Tool Sets	1,600.00	1,840.00	1,720.00	0.01
022 704-0200	Polypropylene mesh,stapled, 220 gram/SQM			1,600.00	1,840.00	1,720.00	0,01
022 704-0200	Silt fence, polypropylene, adverse conditions	1		250.00	288.00	269.00	0.06
022 708	RETAINING WALLS:						
022 708-1900	Concrete gravity wall with vertical face, including excavation & backfill, non- reinforced, 1.8 meter high, level embankment.	SOM	0.500 Skilled Foreman 5.000 Skilled Labors 0.250 Common Laborers 0.250 Equip. Operator 0.250 Equip. Operator 0.250 Gase Foliane Vibrator 0.250 Gase Engine Vibrator 0.125 Concrete Pump & transit mixer 0.125 Truck 25 ton 2.000 Power Tools 0.125 Truch 25 ton 2.000 Power Tools 0.125 Truch	8.78	10.00	9.39	2.620
022 708-2200	Concrete gravity wall, with vertical face, including excavation & backfill,	T	0.120 110/33/0	6.59	8.00	7.30	3.490
022 708-2300	Concrete gravity wall with vertical tase including execution & hackfill			5.76	7.00	6.38	3.993
022 708-2300	Concrete gravity wall, including excavation & backfill,			4.61	5.00	4.81	4.989
022 708-3000	non- reinforced, 3.00 meter high,33degree sloped embankment. Reinforced concrete, cantilever wall, including excavation &	\vdash		7.84	9.00	8.42	2.934
	Dackfill, 1.8 meter high, 33 degree sloped embankment.	+-	+	-	3555	55.830	
022 708-3100	backfill, 3 meter high, 33 degree sloped embankment. Reinforced concrete, cantilever wall, including excavation &	-	-	4.70	5.00	4.85	4.894
022 708-3200	backfill, 6.00 meter high, 33 degree sloped embankment.		<u> </u>	2.35	3.00	2.68	9.787
022 708-4100	Concrete filled slurry trench,see division 021-684						
022 712	RIP-RAP:			All			
022 712-0100	Rip-rap, random broken stone, machine placed, for slope protection, 0.29 to 0.19 cum pieces, grouted	CUM	0.125 Labor Foreman 1.000 Skilled Labor 2.000 Equip. Operator 1.000 Common laborer 1.000 Shovel 0.57 cum 1.000 Clamshell Backhoe, 0.57 m3 1.000 Grout Machine	55.00	63.00	59.00	0.436
022 712-0200	Rip-rap, random broken stone, machine placed, for slope protection, 450 mm thick, not grouted	SQM	0.125 Labor Foreman 5 Laborers 1 Equip. Operator 1 Hydraulic Crane	35.00	40.00	37.50	0.229
022 712-0600	Gabions, galvanized steel mesh, stone filled, 300 mm deep			90.00	104.00	97.00	0.089
022 712-0800	Gabions, galvanized steel mesh, stone filled, 900 mm deep			35.00	40.00	37.50	0.229
022 716	STONE WALL:						
022 716-0600	Stone wall, including excavation, concrete footing and stone, 900 mm below grade, exposed area measure cut stone, 2 meters high, 450 mm thick, mortar set	SQM	0,250 Skilled Foreman 1,000 Skilled labor 5,000 Common laborer 1,000 Equip. Operator 0,500 Crane 80 ton 0,250 Backhoe, 057 M3	2.50	3.00	2.75	2.400
022 800	SOIL TREATMENT						
022 804	TERMITE PRETREATMENT:						
022 804-0100	Termite treatment , slabs complete with insecticides for control, average	SQM	0.125 Skilled Foreman 2.000 Skilled Worker 2.000 Power Tools	225.00	259.00	242.00	0.071
022 804-0100	Termite treatment, walls complete with insecticides for control, average		1	226.00	260.00	243.00	0.071
023	TUNNELING, PILES & CAISSONS		THE SHAPE SHIP			W S	
023 550	PILES DRIVING					111	
023 554	MOBILIZATION:						
023 554-0100	Mobilization & demobilization of driven pile equipment from warehouse to site within city limit, 3 days mobilization	LM	1.000 Skilled Foreman 3.000 Skilled Workers 1.000 Equip. Operator 2.000 Mechanist 2.000 Truck Driver 5.000 Common Laborers 1.000 Crane 135 ton	0.33	0.40	0.37	72.727
023 558	PILING SPECIAL COSTS:		2.000 Bed Truck				

CSI CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D.O. MIN.	D.O. MAX.	D.O. AVRG	AVRG. E.H.
023 558-0500	Cutoffs of plain concrete pile , 500 mm diameter	EA	0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common Laborer 1.000 Concrete Saw	4.50	5.00	4.75	1.77
023 558-0600	Cutoffs of plain with thin shell		1,000 CONDICTOR CON	3.75	4.00	3.88	2.13
023 558-0700	Cutoffs of steel pile	1		13.00	15.00	14.00	0.61
	Note. Add for pile testing as specified	-		-			
023 600	DRIVEN PILES						
023 604	PILES CONCRETE: 200 Piles, 18 Meter Long						
023 604-0100	Cast in place, thin wall shell pipe pile, straight sided, non-reinforced 200 mm diameter, 16 gauge, 8.5 Kg/Lm, not including mobilization & pile caps	LM	1.000 Skilled Foreman 4.000 Pile Drivers 1.000 Mechanic 3.000 Equip. Operators 1.000 Common Laborer 1.000 Crane, 36 ton, with 50 Im leads \$ 1 harmer 1.000 Air compressor with hoses	155.00	178.00	166.50	0:10
023 604-0300	Cast in place, thin wall shell pile, straight sided, non-reinforced			124.00	143.00	133.50	0.129
023 604-0400	300 mm diameter, 16 gauge, 13 Kg/Lm, not including mobilization & pile caps Cast in piace, thin wall shell pile, straight sided, non-reinforced			116.00	133.00	124.50	0.138
023 604-0500	350 mm diameter,16 gauge, 14.88 Kg/Lm,not including mobilization & pile caps Cast in place,thin wall shell pile,straight sided,non-reinforced		+	105.00	121.00	113.00	0.152
023 604-0800	400 mm diameter,16 Gauge, 17 Kg/Lm,not including mobilization & pile caps Cast in place,friction pile,fluted, non-reinforced concrete tapered steel,28MPa,300 mm			124.00	143.00	133.50	0.132
023 604-1200	diameter, 7 guage,not including mobilization & pile caps Cast in place,friction pile,fluted,non-reinforced concrete			93.00	107.00	100.00	0.123
023 604-1400	tapered steel, 28 MPa.450 mm diameter, 7 gauge not including mobilization & pile caps Cast in place concrete, end bearing, pile, fluted, no reinforcement, Constant Diameter, 28		-				577725
023 604-1400	MPa. 450 mm Diameter, 7 Gauge Precast, prestressed, pile, 400 mm diameter, 75 mm wall, wall thickness, up to 110	-		93.00	107.00	100.00	0.172
023 604-2500	mm, pile either with void or cylinder type, shape either square or octagonal. Precast, prestressed, pile, 600 mm diameter, 90 mm wall, wall thickness, up to 110 mm,			126.00	145.00	135.50	0.127
	pile either with void or cylinder type, shape either square or octagonal. Precast prestressed pile, 900 mm diameter, 115 mm wall, wall thickness, up 125 mm			95.00	109.00	102.00	0.168
023 604-2920	pile cylinder shape type. Precast, prestressed, pile, 1.4 m diameter, 130 mm wall, wall thickness, up to 130 mm,			76.00	87.00	81.50	0.211
023 604-2940	pile cylinder shape type.			63.00	72.00	67.50	0.254
023 604-2960	Precast, prestressed, pile, 1.6 m diameter, 150 mm wall, wall thickness up to 150 mm, pile cylinder shape type.		ļ	38.00	44.00	41.00	0.421
023 608	STEEL PILES:						
023 608-0120	Steel tapered, round, concrete filled, 200 mm tip, 54 ton capacity, 18 meters deep.	LM	1,000 Skilled Foreman 4,000 Pile Drivers 1,000 Mechanic 3,000 Equip, Operators 1,000 Common Laborer 1,000 Common Laborer 1,000 Crane, 36 ton, with 60 imileads & 1 hammer 1,000 Air compressor with hoses	162.00	186.00	174.00	0.099
023 608-0200	Steel tapered, round, concrete filled, 300 mm tip, 109 ton capacity, 18 meters deep.			130.00	150.00	140.00	0.123
023 608-0250	Pile, steel, "H" section, 15 m long, 200 mm x 200 mm, 54 Kg/lm,			136.00	156.00	146.00	0.118
023 608-0800	Pile, steel, "H" section, 15 m long, 300 mm x 300 mm 110 Kg/lm,			109.00	125.00	117.00	0,147
023 608-1300	Pile, steel, "H" section, 15 m long, 350 mm x 350 mm 150 Kg/lm,		.	93.00	107.00	100.00	0.172
023 608-3300	Steel pipe pile, concrete filled, 300 mm diameter, average scattered spacing, 65 kg/m, 18 meters deep, including splices.	LM	1,000 Skilled Foreman 4,000 Pile Drivers 1,000 Mechanic 3,000 Equip, Operators 1,000 Common Laborer 1,000 Crane, 36 ton, with 60 im leads 8 1 harmer 1,000 Air compressor with hoses	81.00	93.00	87.00	0.198
	Steel pipe pile, concrete filled, 400 mm diameter, average scattered spacing,77 kg/m, 18 meters deep, including splices.	T		68.00	78.00	73.00	0.235
23 608-4200	Steel pipe pile, concrete filled, 450mm, diameter, average scattered spacing, 88 kg/m,			60.00	69.00	64.50	0.267
Marchan R	18 meters deep, including splices. BORED / AUGERED PILES:	•	▼	750.022.570		#DIV/01	120 200
23 704	PRESSURE INJECTED FOOTINGS:					aDIV/0	
03 704.0000	Uncased shaft, up 70 ton capacity, 430 mm diameter, 8 meters deep, including mobilization & demobilization.	LM	1.000 Skilled Foreman 4.000 Pile Drivers 1.000 Mechanic 2.000 Equip Operators 1.000 Common Laborer 1.000 Crane, 36 ton, with 60 im leads 8 1 hammer	35.00	40.00	37.50	0.229

	n 02 : SITE WORK			CDEW			20	- W10100000
CODE	ITEM DESCRIPTION	UNI	п	CREW STRUCTURE	D.O. MIN.	D.O. MAX.	D.O. AVRG	AVRG. E.H.
023 704-050	Uncased shaft, 70 ton capacity, 560 mm diameter, 6 meters deep, including mobilization and demobilization.	↓			30.00	35.00	32.50	0.26
023 800	CAISSONS:							
023 804	CAISSONS:	-/-						700
023 804-010	Open style caissons,machine drilled, with concrete,in stable ground, no casings or ground water, 15 meters deep, 450 mm diameter.	LM		1,000 Skilled Foreman 2,000 Pile Drivers 2,000 Common Laborers 1,000 Heavy Equip. Operator 1,000 Truck Driver 1,000 Drill Rig & Auger, Truck Mtd.	45.00	52.00	48.50	0.17
023 804-0200	Open style caissons, machine drilled, with concrete, in stable				42.00	48.00	45.00	0.190
023 804-0400	ground, no casings or ground water, 15 meters deep, 600 mm diameter. Open style caissons, machine drilled, with concrete in stable ground, no casings or	$\forall t$			29.00	33.00	31.00	0.276
023 804-0500	ground water, 15 meters deep, 900 mm diameter. Open style caissons,machine drilled, with concrete,in stable ground, no casings or				23.00	26.00	24.50	0.348
023 804-0600	ground water, 15 meters deep,1.2 m diameter. Open style caissons,machine drilled, with concrete,in stable ground, no casings or	+		 	20.00	23.00	057700	200000
	Open style reassens machine drilled with congrets in stable ground, no engines or	++	-			2005	21.50	0.400
023 804-0700	ground water, 15 meters deep,1.8 m diameter.				18.00	21.00	19.50	0.444
	Bell including concrete & excavation 1.2 m diameter for caissons shaft 600 mm				14.00	16.00	15.00	0.571
AND THE PARTY OF T	Bell including concrete & excavation 2.7 m diameter for caissons shaft 1.2 m				1.50	2.00	1.75	5.333
023 804-1100	Bell including concrete & excavation 3.0 m diameter for calssons shaft 1.5 m				1.00	1.00	1.00	8.000
023 804-1180	Bell including concrete & excavation 3.7 m diameter for caissons shaft 1.8 m	+		+	1.00	1.00	1.00	8.000
023 804-1300	Open style caissons,machine drilled, with concrete,in wet ground, pulled casing, and pumping, 15 meters deep, 450 mm diameter.	LM		1.000 Skilled Foreman 2.000 Pile Driver 3.000 Common Laborers 1.000 Heavy Equip. Operators 1.000 Mechanic 1.000 Drill rig & auger, truck mtd 1.000 Pump w/ tubing.	36.00	41.00	38.50	0.444
023 804-1600	ground, no casing, 18 meters deep, 450 mm diameter.				8.70	10.00	9.35	1.839
023 804-1900	Open style caissons,machine drilled, with concrete,in soft rock ground, pulled casing,and pumping,18 meters deep, 900 mm diameter.				4.50	5.00	4.75	3.556
024	RAILROAD AND MARINE WORK							
024 520	RAILROAD TRACKWORK							
024 524	RAILROAD:							
024 524-0010	Car bumpers heavy duty	EA		0.125 Skilled Foreman 1.000 Skilled Worker "Railman" 4.000 Common laborers 1.000 Equip. operator 1.000 Backhoe, 50 HP	1.50	2.00	1.75	5.333
024 524-0300	Derails hand throw, with standard timbers,open stand	EA			4.00	5.00	4.50	2.000
024 524-0800	Sliding yard spur,level grade,on wood ties & ballast, 35 Kg rail.	LM			12.00	14.00	13.00	0.667
024 524-0822	Sliding yard spur,level grade,on wood ties & ballast, 45 Kg rail.		1		12.00	14.00	13.00	0.667
024 524-0822	Sliding yard spur,level grade,on wood ties & ballast, 50 Kg rail.				12.00	14.00	13.00	0.667
024 524-1002	Siding steel ties in concrete with fasteners and plates, rail 36 Kg				4.50	5.00	4.75	1,778
024 524-1012	Siding steel tips in concrete with feetanees	LM	4	0.125 Skilled Foreman 1.000 Skilled Worker "Railman" 4.000 Common laborers 1.000 Equip: operator 1.000 Backhoe, 50 HP	4.50	5.00	4.75	1.778
24 524-1020	Siding steel ties in concrete with fasteners and plates, rail 45 Kg	П	1		4.50	5.00	4.75	1.778
	Siding steel ties in concrete with fasteners and plates, rail 50 Kg	\top	1		4.50	5.00	4.75	1.778
024 524-1030	and praces, rail 50 Kg	LM	1	0,125 Skilled Foreman 1,000 Skilled Worker "Railman" 4,000 Common laborers 1,000 Equip, operator 1,000 Backhoe, 50 HP	55.00	63.00	59.00	0.145
	Ties concrete,2600 mm long, 760 mm O.C.							
024 524-1400	Ties concrete,2600 mm long, 760 mm O.C. Wheel stops, fixed	EA		, out backing, 50 HP	9.00	10.00	9.50	0.889
024 524-1400 024 524-2400					9.00	10.00	9.50	0.889
	Wheel stops, fixed				9.00	10.00	9.50	0.889

	102 : SITE WORK		0000	1 TO 18 10	DICE ON COLUMN		
CSI CODE	ITEM DESCRIPTION	UNIT	STRUCTURE	D.O. MIN.	D.O. MAX.	D.O. AVRG	AVRG. E.H.
024 824-0300	Barge mounted clamshell excavation into scows, dumped 30 Km at sea	CUM	1.00 Labor Foreman 1.00 Machinis 4.00 Common Laborers 1.00 Heavy Equip. Operator 1.00 Barge 1.00 Clarishell Backhoe, 0.76 cum	180.00	207.00	193.50	0.08
024 824-0500	Barge mounted dragline or clamshell hooper dumped pumped 300 meters to sore dump.	CUM	1:00 Labor Foreman 1:00 Machinist 4:00 Common Laborers 2:00 Heavy Equip. Operator 1:00 Light Equip. Operator 1:00 Power shovel 0:76 cum 1:00 Barge 1:00 Clamshell Backhoe: 0:76 cum 1:00 Power showled Section 8:20 Discharge hoses	200.00	230.00	215.00	0.16
024 840	SEAWALL & BULKHEADS						
024 844	BULKHEADS:					0010	
024 844-0020	Bulkheads reinforced concrete,include footing and tie-backs, up to 1.8 m high, average	LM	0.500 Skilled Foreman 5.000 Skilled Labors 3.000 Common Laborers 0.250 Cement Finisher 0.250 Equip Operator 0.250 Gas Engine Vibrator 0.250 Gas Engine Vibrator 0.125 Concrete Pump & transit imixer 0.125 Truck 25 ton 2.000 Power Tools 0.125 Trencher	6.91	8.00	7.46	3.329
024 844-0100	Bulkheads reinforced concrete,include footing and tie-backs,			3.36	4.00	3.68	6.845
	up to 3.7 m high, average	-	0.125 Labor Foreman	T07.0	0.203	0.00	
024 844-0600	Bulkheads Crushed stone placed behind bulkhead by clam bucket	CUM	5.00 Laborers 1.00 Equip Operator 1.00 Hydraulic Crane, 11 ton	28.00	32 00	30.00	0.286
024 844-6000	Crushed stone placed behind bulkhead by clam bucket	CUM	1.00 Equip. Operator 1.00 Clamshell Backhoe 0.76 M3	95.00	109.00	102.00	0.084
024 848	BULKHEADS, RESIDENTIAL CANAL:						
024 848-0060	Bulkheads, aluminum panel sheeting, including concrete cap and anchor, coarse compact sand, 1.8 m high, 800 mm embedment.	LM	0.500 Pile Drivers 4.00 Pile Drivers 1.00 Equip. Operator (crane) 1.00 Equip. Operator Oiler 1.00 Crane 35 metric ton 0.625 Vibratory harmer & gen 0.500 Bed truck	53.00	61.00	57.00	0.321
024 848-0140	Bulkheads, aluminum panel sheeting including concrete cap and anchor, coarse compact sand 1.8 m high, 1.2 m embedment	TT		37.00	43.00	40.00	0.459
024 848-0240	Bulkheads, Aluminum panel sheeting, including concrete cap and anchor, coarse			25.00	29.00	27.00	0.680
024 880	compact sand, 2.4 m. high,1.5 m embedment DOCKS & FACILITIES	. *	I	100000	1000000	eaverger)	878-868
Application 1	Contract continues						
024 884	DOCKS,FIXED: Fixed dock,pile supported,treated wood, 1.5 m x 6 m platform, average	SOM	0.125 Skilled Foreman 3.00 Skilled workers 1.00 Pile Driver 1.00 Truck Driver 2.00 Common Laborer 1.00 Air Compressor 1.00 Truck 3 Ton 2.00 Power Tools	0.76	1.00	0.88	42 105
24 884-0200	Fixed dock,pile supported,treated wood, 2.4 m x 6 m platform,average			0.60	1.00	0.80	53.333
025	PAVING & SURFACING		THE PARTY OF THE P				Wat.
025 100	WALK/ROAD/PARKING PAVING						
25 104	ASPHALTIC CONCRETE PAVEMENT:	- 19					
	Asphalt concrete pavement, binder course, 75 mm thick	SOM	0.375 Labor Foreman 1.000 Surveyor 7.000 Laborers 3.000 Equip. operator 1.000 Asphalt Paver 1.000 Tandem Roller, 9 Ton 1.000 Roller, Pneumatic Wheel	5,095.00	5,859.00	5,477.00	0.005
25 104-0120	Asphalt concrete pavement, binder course, 50 mm thick			4,442.00	5.168.00	4,775.00	0.005
25 104-0160	Asphalt concrete pavement wearing course, 75 mm thick			3,364.00	3.8 (-)	34157-90	0.007
25 104-0300	Asphalt concrete pavement, wearing course, 25 mm thick			6,370.00	7,325.00	4.349.00	0.004
25 104 0380	Asphalt concrete pavement, wearing course, 50mm thick			4,220.00	4,853.00	4,536.50	0.006
23 104 0300							

CSI			CREW			D.O.	AVRG.
CODE	ITEM DESCRIPTION	UNIT	STRUCTURE	D.O. MIN.	D.O. MAX.	AVRG	E.H.
025 104-0810	Asphalt concrete pavement, wearing course, alternate method by ton for averageof 50 mm thick.	1		422.00	485.00	453.50	0.05
025 116	COLD LAID ASPHALT PAVEMENT:		*				
025 116-0100	100mm course blade mixed spread & compacted	CUM	1 Labor Foreman 2 Laborers 4 Equip.Oper.(medium) 2 Graders.13 608 kg 1 Roller, Steel Wheel 1 Roller, Pneumatic Wheel	1,514.00	1,741.00	1,627.50	0.02
025 116-020 0	100mm course plant mixed,spread & compacted	CUM	1 Labor Foreman 2 Laborers 4 Equip.Oper.(medium) 2 Graders,13 605 kg 1 Roller, Steel Wheel 1 Roller,Pneumatic Wheel	1,160.00	1,334.00	1,247.00	0.028
025 120	CONCRETE PAVEMENT:						
025 120-0020	Concrete pavement including joints, finishing, and curing, fixed form, 4m wide passage, reinforced, 150 mm thick	SOM	1.00 Skilled Foreman 9.00 Skilled Workers 3.00 Common Laborers 0.125 Equip operator (med) 0.375 Concrete Pump 2.00 Power tools 0.375 Gas Engine Vibrator 3.00 Gas finishing Mic	90.40	104.00	97.20	0.509
025 120-0100	Concrete pavement including joints, finishing, and curing, fixed form,			87.45	101.00	94.23	0.526
025 120-0400	4m wide passage,reinforced, 200 mm thick Concrete pavement including joints,finishing,and curing,fixed form,			76.00	87.00	81.50	0.605
	4m wide passage,reinforced, 300 mm thick Concrete pavement including joints,finishing,and curing,fixed form,						
025 120-0550	2m wide passage,reinforced,150 mm thick for small irregular areas	-	0.250 Labor Foreman	72.32	83.00	77.66	0.636
025 120-0700	Concrete pavement, finishing, broom finish small areas		1.000 Cement Finishers 1.000 Gas Finishing M/C.	55.00	63.00	59.00	0.145
025 120-0100	Concrete pavement, Curing with sprayed membrane by hand	+	2 Common Laborers	800.00	920.00	860.00	0.000
025 122	FINE GRADE:	h-nt.	1				
025 122-1100	Fine grade granular base for slab on grade by machine	SQM	0.250 Labor Foreman 0.125 Surveyor 1,00 Laborer 3.00 Equip Operator 1,00 Grader 1.00 Tandem Roller, 9 ton 1,00 Ozzer 200 HP 1,00 Water Tanker	1,020.00	1,173.00	1,096.50	0.031
025 122-1150	Fine grade granular base 200 mm thick for slab on grade,in confined area,hand grading	SQM	2 Laborers 1 Vibrating Compactor	95.00	109.00	102.00	0.084
025 128	SIDEWALKS, DRIVEWAYS, & PATIOS No base						
025 128-0020	Sidewalk,asphaltic concrete, 50 mm thick	SQM	4 Laborers 1 Equip Oper (light) 1 Tandem Roller, 4.5 met ton	468.00	538.00	503.00	0.017
	Sidewalk,concrete,20 MPa,cast in place with 150 x 150-100 mm/100 mm mesh,broomed finish,no base,100 mm thick		0.125 Labor Foreman 2.00 Skilled Worker 1.00 Common Laborer 1.00 Gas Finishing WC	27.00	31.00	29.00	0.296
025 128-1000	Sidewalk,crushed stone, 25 mm thick,white marble,or bluestone		0.125 Labor Foreman 2.00 Common Laborer 2.00 Tools Sets	100.00	115.00	107.50	0.160
025 128-1660	Sidewalk,limestone pavers, 75 mm thick		0.125 Labor Foreman 1.000 Brick Layer 1.000 Common Laborer 1.000 Tools Set	5.00	6.00	5.50	1.600
25 128-1700	Sidewalk,redwood,prefabricated,1200 mm x 1200 mm sections		0.125 Labor Foreman 2.00 Skilled Workers 2.00 Power Tools	20.00	23.00	21.50	0.800
25 150	UNIT PAVERS						
25 158	BRICK PAVING:						
	Brick pavers,laid on 100 mm thick concrete bed, 100 mm x 200 mm x 38 mm.grouted,10 mm joint	SQM	0.125 Labor Foreman 1.000 Brick Layer 1.000 Common Laborer 1.000 Tools Set	6.00	7.00	6.50	1.333
25 158-1500	Brick pavers,100 mm x 200 mm x 57 mm laid flat on 100 mm thick sand bed		- H	300.00	345.00	322.50	0.027
25 158-2800	Brick paving,steam cleaning		Building Laborer Gas Eng. Power Tool	100.00	115.00	107.50	0.080
125 162	CONCRETE BLOCK PAVERS:						
25 162-0720	Pavers Precast concrete 50 mm thick, 400 mm x 400 mm	SQM	0.125 Labor Foreman 1.000 Brick Layer 1.000 Common Laborer 1.000 Tools Set	24.00	28.00	26.00	0.333
25 166	STONE PAVERS:		econo menorativa				
25 166-1100	Stone pavers,irregular, 25 mm thick	SQM	1 Building Laborer 1 Gas Eng. Power Tool	6.00	7.00	6.50	1.333
	Stone pavers,random,rectangular, 50 mm thick		1 Gas Eng Fower 1001	6.00	7.00	6.50	1.333

	102 : SITE WORK	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUM	CDEW	Carried Hall Street	The state of the s	MESICE	O FEED OF SE
CODE	ITEM DESCRIPTION	UNIT	STRUCTURE	D.O. MIN.	D.O. MAX.	D.O. AVRG	AVRG. E.H.
025 166-1550	Pavers,granite blocks; 90 mm x 90 mm x 90 mm;	+	•	7.00	8.00	7.50	1.14
025 250	CURBS						
025 254	CURBS:						
025 254-0300	Curbs, Concrete, 200 mm x 450 mm,wood forms,straight	LM	0:125 Labor Foreman 4:00 Carpenters 1:00 Common Laborer 4:00 Power Tools	100.00	115.00	107.50	0.320
025 254-0400	Curbs, Concrete, 200 mm x 450 mm, wood forms, curved			40.00	46.00	43.00	0.800
025 254-0435	Curb & gutter, straight with 150 mm high curb and 150 mm thick gutter, wood forms 760 mm wide, 0.17 m3/m			60.00	69.00	64.50	0.533
025 254-0550	Curb & author proceed 150 mm high curb 150 mm that author 450 mm		0.125 Skilled Foreman 4.000 Common Laborers 1.000 Equip Operator 1.000 Grader, 2.7 metric ton	150.00	173.00	161.50	0.053
025 300	ATHLETIC PAVE/SURFACING		1.000 Gradel, E. Henry Idi	-			
025 304	RUNNING TRACK:						
025 304-0050	Running track,colored rubberized asphalt pavement, 25 mm thick	SQM	0.375 Labor Foreman 1.000 Surveyor 7.000 Laborers 3.000 Equip. operator 1.000 Asphat Paver 1.000 Tandem Roller, 9 Ton 1.000 Roller, Pneumatic Wheel	956.00	1,099.00	1,027.50	0.025
025 304-0300	Running track,rubber-vermiculite asphalt,colored, 25 mm thick			957.00	1,101.00	1,029.00	0.025
025 308	TENNIS COURT:						
025 308-0200	Double tennis court,asphaltic concrete,including base, 64 mm thick, colored sealer,acrylic emulsion, 3 coats	SQM	0.375 Labor Foreman 1.000 Surveyor 7.000 Laborers 3.000 Equip. operator 1.000 Asphall Paver 1.000 Tandem Roller, 9 Ton 1.000 Roller, Pneumatic Wheel	480.00	552.00	516.00	0.050
025 308-0200	Double tennis court, asphaltic concrete , finish colored sealer, acrylic emulsion 3 coats.	1(0)	1,00 Common Laborer 1.00 Tools Set	240.00	276.00	258.00	0.033
025 308-1400	Tennis court,posts for nets, 90 mm diameter with eye bolts,or pulley & reel	PAIR	0 125 Labor Foreman 2.000 Common Laborers 2.000 Tools Set	3.00	3.00	3.00	5.333
	Tennis court,net,13 m long,nylon thread with binder	PAIR	0.125 Labor Foreman 2.000 Common Laborers 2.000 Tools Set	42.00	48.00	45.00	0.381
025 308-2000	Tennis court,paint markings on asphalt, 2 coats	COURT	1 Painter 1 Tools Set	1.00	1.00	1.00	8.000
025 400	SYNTHETIC SURFACING						
025 404	TURF,ARTIFICIAL:						
025 404-0910	Artificial turf,including 65 mm asphalt base with 150 mm crushed stone,no drainage	SQM	1.00 Skilled Worker Foreman 4.00 Skilled Workers 2.00 Common Laborer 4.00 Tools Set	120.00	138.00	129.00	0.267
025 450	SURFACING						
025 458	SEALCOATING:						
	Surfacing including surface preparation, cleaning, & 2 coat of coal tar pitch emulsion or petroleum resistant, for surfaces upto 8500 m2	SOM	0.125 Labor Foreman 2.00 Common Laborer 1.00 Truck Driver 1.00 Asphalt Tanker	2,111.00	2,428.00	2,269.50	0.004
	Surfacing, asphalt treatment, single course, small area 1.4 L/m2 asphalt material, 11 kg/m2 aggregate		0.375 Labor Foreman 1,000 Surveyor 7,000 Laborers 3,000 Equip, operator 1,000 Asphalt Paver 1,000 Tandem Roller, 9 Ton 1,000 Roller, Pneumatic Wheel	2,200.00	2,530.00	2,365.00	0.011
025 500	BRIDGES						
025 504	BRIDGES:						
	Pedestrian bridge,not including foundations,precast concrete. 2.4 m wide,18 m span	SQM	1.000 Struc Steel Foreman 6.000 Struc Steel Workers 1.000 Equip. Operator (Crane) 1.000 Equip. Operator (olier) 1.000 Crane. 136 ton, truck mtd.	18.00	21.00	19.50	0.444
	Pedestrian bridge,not including foundations,steel trussed or arched spans, 2.4 m wide,15 m span			28.00	33 cu ₁	35.00	n.286
025 504-0700	Redestrian bridge,not including foundations,steel trussed or arched spans, 2.4 m wide, 30 m span	Ţ		36,00	41.00	26.50	(-512
	PAVEMENT MARKING		· · · · · · · · · · · · · · · · · · ·				

CSI		1000100000	CREW STRUCTURE		12292 2222	12:112 33:000	D.O.	AVRG.
CODE	ITEM DESCRIPTION	UNIT			D.O. MIN.	D.O. MAX.	AVRG	E.H.
025 804-0020	Pavement marking, including layout, painting lines, latex, white or yellow, 150 mm wide	LM	0.125 Labor Ford 1.000 Surveyor 1.000 Common L 1.000 Truck Driv 1.000 Truck Pain	aborer er	2,500.00	2,875.00	2,687.50	0.00
025 804-0500	Pavement marking,painting lines,latex,white or yellow, 200 mm wide				2,250.00	2,588.00	2,419.00	0.00
025 804-0620	Pavement marking painting arrows or gore lines				175.00	201.00	188.00	0.04
025 804-0730	Pavement marking including layout,painting thermoplastic white or yellow lines, 150 mm wide				3,200.00	3,680.00	3,440.00	0.00
025 804-0750	Pavement marking including, painting thermoplastic white or yellow lines, 300 mm wide				1,800.00	2,070.00	1,935.00	0.00
025 804-0760	Pavement marking ,painting thermoplastic white or yellow arrow	SQM			185.00	213.00	199.00	0.04
025 804-0800	Parking stall marking, latex paint	STALL			650.00	748.00	699.00	0.01
025 804-1000	Pavement marking,numbers or letter				120.00	138.00	129.00	0.06
026	PIPED UTILITIES							
026 010	PIPED UTILITIES							
026 012	BEDDING:							
026 012-0050	Bedding for utility lines,not including compaction,crushed run gravel	CUM	2 Laborers 1 Equip.Oper.(ligi 1 Backhoe Loadi		200.00	230.00	215.00	0.040
026 012-0200	Bedding for utility lines,not including compaction,sand				20.00	23.00	21.50	0.400
026 012-0500	Bedding compaction in trench	CUM	1 Building Labore 1 Gas Eng. Powe		30.00	35.00	32.50	0.267
026 014	EXCAVATION AND BACKFILL: See division 022-204&254	-	•					
026 014-0100	Hand excavate and trim for pipe bells after trench excavation,pipe size 200 mm	LM	1.000 Common L 1.000 Tool Set	aborer	36.00	41.00	38.50	0.22
026 014-0300	Hand excavate and trim for pipe bells after trench excavation,pipe size 450 mm	144		40	28.00	32.00	30.00	0.28
026 050	MANHOLES & CLEANOUTS	-						
026 054	UTILITY VAULTS:							
026 054-0100	Utility manhole or vault,precast concrete, 150 mm thick,size 1.8 m x 3 m x 1.8 m high,inside dimensions	EA	0.125 Labor Foreman 4.000 Laborers 0.500 Equip. Oper. (crane) 0.500 Crane 23 ton		1.00	1.00	1.00	4.000
026 054-0150	Utility manhole or vault_precast concrete, 150 mm thick,size 1.5 m x 3.7 m x 1.8 m high,inside dimensions			8	1.00	1.00	1.00	4.00
026 054-0300	Utility manhole or vault,precast concrete, 150 mm thick,size 2.4 m x4.3 m x 2 m high,inside dimensions		0.125 Labor Fore 4.000 Laborers 0.500 Equip. Ope 0.500 Crane 23 t	r. (crane)	0.50	0.60	0.55	8.00
026 054-0310	Utility manhole or vault,cast in place,150 mm thick,size 1.8 m x3 m x 1.8 m high,inside dimensions			i.	1.00	1.00	1.00	4.000
026 054-0320	Utility manhole or vault,cast in place,150 mm thick,size 1.5 m x3.7 m x 1.8 m high,inside dimensions		0.250 Skilled For 5.000 carpenters 1.000 Steel Fixer 0.125 Cement Fix 3.000 Common L 0.500 Equip Oct 0.125 Gas Engin 0.125 Concrete F transit mixer 0.375 Crane 23 t 0.125 Bed Truck 4.000 Power Too	nisher aborers rator e Vibrator Pump small &	0.75	1.00	0.88	50.667
026 054-0340	Utility manhole or vault, cast in place, 150 mm thick, size 2.4 m x4.3 m x 2 m high, inside dimensions			9	0.40	0.50	0.45	95.000
026 100	PIPE & FITTINGS	-			- Let I - Let - Let - Let			
026 104	PIPE INSULATION:							
026 104-0100	Pipe insulation,calcium silicate, 25 mm thick,100 mm diameter	LM	1 Asbestos worke 1 Asbestos Helpe 1 Tools Sets		40.00	46.00	43.00	0.200
026 104-0140	Pipe insulation, calcium silicate, 25 mm thick, 150 mm diameter			109030000	26.67	31.00	28.84	0.300
026 104-0160	Pipe insulation, calcium silicate, 38 mm thick, 200 mm diameter				24.00	28.00	26.00	0.333
026 104-0240	Pipe insulation, calcium silicate, 38 mm thick, 400 mm diameter				19.20	22.00	20.60	0.417
026 104-0400	Pipe insulation, calcium silicate, 50 mm thick, 100 mm diameter		0.0		34.00	39.00	36.50	0.23
026 104-0600	Pipe insulation, calcium silicate, 50 mm thick, 600 mm diameter				15.30	18.00	16.65	0.523
026 104-0700	Pipe insulation, calcium silicate, 80 mm thick, 100 mm diameter				24.00	28.00	26.00	0.333
026 104-0760	Pipe insulation, calcium silicate, 80mm thick, 200 mm diameter				16.00	18.00	17.00	0.500
026 104-0900	Pipe insulation, calcium silicate, 80 mm thick, 600 mm diameter				10.71	12.00	11.36	0.747
26 104-1020	Pipe insulation, fiberglass, 25 mm thick, 100 mm diameter				40.00	46.00	43.00	0.200
A CONTRACTOR OF THE PARTY OF TH	Pipe insulation,fiberglass, 25 mm thick, 200 mm diameter				25.00	29.00	27.00	0.320
Option Control of Child	Pipe insulation,fiberglass, 25 mm thick, 600 mm diameter		-		16.00	18.00	17.00	0.500

CSI CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D.O. MIN.	D.O. MAX.	D.O. AVRG	AVRG. E.H.
026 104-1300	Pipe insulation, fiberglass, 40 mm thick, 100 mm diameter	+		32.00	37.00	34.50	0.25
The second second	Pipe insulation, fiberglass, 40 mm thick, 200 mm diameter	11		21.60	25.00	23.30	0.37
	Pipe insulation, fiberglass, 50 mm thick, 300 mm diameter	LM	Asbestos worker Asbestos Helper Tools Sets	18.36	21.00	19.68	0.436
026 104-1800	Pipe insulation, fiberglass, 50 mm thick, 600 mm diameter		1 1000 3015	15.30	18.00	16.65	0.523
026 400	VALVES & COCKS						
026 404	PIPING VALVES: Water distribution, see also div.151-900						
026 404-3100	Pining value hutterfly with hoves cast iron mechanical joint	EA	0.125 Skilled Foreman 1.000 Skilled worker 1.000 Plumber Apprentice 1.000 Tools Set	3.00	3.00	3.00	2.667
026 404-3180	Piping valve, butterfly with boxes, cast iron, mechanical joint, 200 mm diameter (8")		0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common Laborer 0.500 Equip, Operator 0.500 Crane 11 ton 1.000 Tools Set	2.25	3.00	2.63	5.333
026 404-3340	Piping valve,butterfly with boxes,cast iron,mechanical joint, 300 mm diameter (12")			1.75	2.00	1.88	6.857
026 404-3500	Piping valve, butterfly with boxes, cast iron, mechanical joint, 1600 mm diameter (24")			0.35	0.50	0.43	34.286
026 404-3610	Piping valve, butterfly with boxes, cast iron, mechanical joint, & with lever operator size 100 mm		0.125 Skilled Foremen 1.000 Skilled worker 1.000 Plumber Apprentice 1.000 Tools Set	3.00	3.00	3.00	2.667
026 404-3616	Piping valve, butterfly with boxes, cast iron, mechanical joint, & with lever operator size 200 mm		0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common Laborer 0.500 Equip. Operator 0.500 Crane 11 ton 1.000 Tools Set	2.25	3.00	2.63	5,333
026 404-3620	Piping valve, butterfly with boxes, cast iron, mechanical joint, & with lever operator size 300 mm			1.75	2.00	1.88	6.857
026 404-3630	Piping valve butterfly with boxes, cast iron, mechanical joint, & with lever operator size			0.35	0.50	0.43	
	300 mm	-	0.125 Skilled Foreman	0.55	0.50	0.43	34.286
026 404-3710	Piping valve,check,flanged 100 mm diameter		1.000 Skilled worker 1.000 Plumber Apprentice 1.000 Tools Set	3.00	3.00	3.00	2.667
026 404-3714	Piping valve,check,flanged 150 mm diameter		44	2.50	3.00	2.75	3.200
026 404-3716	Piping valve,check,flanged 200 mm diameter		0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common Laborer 0.500 Equip Operator 0.500 Equip Operator 0.500 Tools Set	2.25	3.00	2.63	5.333
026 404-3720	Piping valve,check,flanged 300 mm diameter			1.75	2.00	1.88	6.857
026 404-3730	Piping valve,check,flanged 600 mm diameter			0.35	0.50	0.43	34.286
026 404-3810	Piping valve,gate,flanged,100 mm diameter		0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Plumber Apprentice 1.000 Tools Set	3.00	3.00	3.00	2.667
026 404-3814	Piping valve,gate,flanged,150 mm diameter		W.	2.50	3.00	2.75	3.200
026 404-3816	Piping valve,gate,flanged, 200 mm diameter		0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common Laborer 0.500 Equip. Operator 0.500 Crane 11 ton 1.000 Tools Set	2,25	3.00	2.63	5.333
026 404-3820	Piping valve,gate,flanged,300mm diameter			1.75	2.00	1.88	6.857
26 404-3830	Piping valve,gate,flanged, 600 mm diameter			0.35	0.50	0.43	34.286
026 404-3842	Piping valve,gate,flanged with boxes,size 100 mm diameter		0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Plumber Apprentice 1.000 Tools Set	2.50	3.00	2.75	3.200
26 404-3844	Piping valve,gate,flanged with boxes,size 150 mm diameter			2 00	2.00	2.00	4 000
26 404-3846	Piping valve,gate,flanged with boxes,size 200 mm diameter		0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common Laborer 0.500 Equip Operator 0.500 Crane 11 ton 1.000 Tools Set	1.80	2.00	1.90	6.667
26 404-3850	Piping valve,gate,flanged with boxes,size 300 mm diameter			1.40	2.50	174	8.71
26 404-3860	Piping valve,gate,flanged with boxes,size 600 mm diameter			0.30	0.50	0.40	40 %
26 404-3 910 F	Piping valve,globe,flanged,iron body,size 100mm diameter		0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Plumber Apprentice 1.000 Tools Set	5.00	6.00	5.50	1,600

CSI CODE	ITEM DESCRIPTION	UN	Т	CREW STRUCTURE	D.O. MIN.	D.O. MAX.	D.O. AVRG	AVRG. E.H.
026 404-3914	Piping valve,globe,flanged,iron body,size 150 mm diameter				4.50	5.00	4.75	1.77
026 404-3916	Piping valve,globe,flanged,iron body,size 200 mm diameter			0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common Laborer 0.500 Equip. Operator 0.500 Crane 11 ton 1.000 Tools Set	3.50	4.00	3.75	3.42
026 404-3920	Piping valve,globe,flanged,iron body,size 300 mm diameter	1		*	2.50	3.00	2.75	4.80
026 404-3930	Piping valve,globe,flanged,iron body,size 600 mm diameter	EA		0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common Laborer 0.500 Equip. Operator 0.500 Crane 11 ton 1.000 Tools Set	0.35	0.50	0.43	34.28
026 450	HYDRANTS							
026 454	PIPING WATER DISTRIBUTION:						9	
026 454-1140	Fire hydrants, two way mechanical joints, excavation and backfill not included. 114 mm valve size, 0.9 m depth	EA		0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common Laborer 0.500 Equip Operator 0.500 Equip Operator 0.500 Tools Set	6.00	7.00	6.50	2.000
026 454-1200	Fire hydrants,two way mechanical joints,excavation and backfill not included 114 mm valve size,1.4 m depth				5.00	6.00	5.50	2.400
026 454-1260	Fire hydrants two way mechanical joints exceptation and hackfill				4.00	5.00	4.50	3.000
026 454-1300	Fire hydrants, two way mechanical joints, excavation and backfill not included. 114 mm valve size, 2.1 m depth				3.50	4.00	3.75	3.429
026 454-2080	Fire hydrants,two way mechanical joints, excavation and backfill not included, 133 mm valve size,1.2 m depth	П			5.00	6.00	5.50	2.400
026 454-2160	Fire hydrants, two way mechanical joints, excavation and backfill not included. 133 mm valve size. 1.8 m depth				4.00	5.00	4.50	3.000
026 454-2320	Fire hydrants hun way manhanical joints averagation and hankfill	EA		0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common Laborer 0.500 Equip. Operator 0.500 Crane 11 ton 1.000 Tools Set	3.00	3.00	3.00	4.000
026 454-2400	Hydrant,low barrel extensions with stems, 300 mm			0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Plumber Apprentice 1.000 Tools Set	8.00	9.00	8.50	1.000
026 454-2480	Hydrant,low barrel extensions with stems, 900 mm				7.00	8.00	7.50	1,143
026 454-2520	Hydrant,low barrel extensions with stems,1200 mm				6.00	7.00	6.50	1.333
026 454-5020	Hydrant,indicating post,adjustable,valve size 100 mm to 350 mm,1.2m bury		Charles Control	0 125 Skilled Foreman 1,000 Skilled Worker 1,000 Common Laborer 0,500 Equip. Operator 0,500 Crane 11 ton 1,000 Tools Set	6.00	7.00	6.50	2.000
026 454-5060	Hydrant,indicating post,adjustable,valve size 100 mm to 350 mm, 2.5 m bury				4.00	5.00	4.50	3.000
026 454-5080	Hydrant,indicating post,adjustable,valve size 100 mm to 350 mm, 3 m bury				3.50	4.00	3.75	3.429
026 454-5540	Hydrant indicator post,non-adjustable,valve size 100 mm to 350 mm,1.2 m bury			+	5.50	6.00	5.75	2.182
026 650	WATER SYSTEMS							
026 686	PIPING WATER DISTRIBUTION: Pipe laid in trench, excavation and backfill not included							
026 686-1410	Water pipings, ductile iron cement lined, mechanical joints, sections 5.5 m long, size 100 mm (4")	EA		0.125 Skilled Foreman 1,000 Skilled Worker 1,000 Plumber Apprentice 1,000 Tool Set	32.37	37.00	34.69	0.247
026 686-1420	Water pipings, ductile iron cement lined, mechanical joints, sections 5.5 m long, size 150	П	1	1,000 Total Set	27.51	32.00	29.76	0.291
026 686-1430	mm (6") Water pipings, ductile iron cement lined, mechanical joints, sections 5.5 m long, size 200 mm (8")			0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common Laborer 0.500 Equip Operator 0.500 Crane 11 ton 1.000 Tools Set	22.66	26.00	24.33	0.530
	Water pipings,ductile iron cement lined,mechanical joints,sections 5.5 m long,size 300 mm (12")				14.56	17.00	15.78	0.824
026 686-1470	Water pipings, ductile iron cement lined, mechanical joints, sections 5.5 m long, size 400				9.71	11.00	10.36	1.236
n26 686-149n	mm (16") Water pipings, ductile iron cement lined, mechanical joints, sections 5.5 m long, size 600 mm (24")			0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common Laborer 0.500 Equip. Operator 0.500 Pipe Layer 1.000 Tools Set	7.12	8.00	7.56	1.685

001	n 02 : SITE WORK			-2010/10000	-			
CODE	ITEM DESCRIPTION	UNIT		CREW STRUCTURE	D.O. MIN.	D.O. MAX.	D.O. AVRG	AVRG. E.H.
026 686-1550	Water pipings, ductile iron cement lined, push on joints, sections 5.5 m long, size 100 mm (4*)		1.000 S 1.000 P	killed Foreman killed worker lumber Apprentice pols Set	36.00	41.00	38.50	0.22
026 686-1560	Water pipings, ductile iron cement lined, push on joints, sections 5.5 m long, size 150 mm (6")				32.00	37.00	34.50	0.25
026 686-1570	Water printer ductile iron coment lived push as joints and see 5.5 m loss size 200 mm.		1		28.00	32.00	30.00	0.28
026 686-1590	Water pipings, ductile iron cement lined, push on joints, sections 5.5 m long, size 300 mm		1		16.00	18.00	17.00	0.50
026 686-1640	(12") Water pipings,ductile iron cement lined,push on joints,sections 5.5 m long,size 600 mm		1		8.00	9.00	8.50	10750
A CONTRACTOR OF THE PARTY OF TH	(24") Water piping, PVC, class 160, standard dimensions, 38 mm diameter.	+	+		60.00		converse.	1.00
AND DESIGNATION OF THE PARTY OF	Water piping, PVC, class 160, Standard dimensions, 30 mm dia	+	+-	_	II. Decreases	69.00	64.50	0.13
			+	_	50.00	58.00	54.00	0.16
	Water piping, PVC, class 160, standard dimensions, 150 mm diameter.		+		36.00	41.00	38.50	0.22
Andreas State and Control of the Control	Water piping, PVC, class 160, standard dimensions, 200 mm diameter. Drill & tap pressurized main 150mm main to service 25 thru 50 mm	♦	1.000 S	cilled Foreman cilled worker umber Apprentice lois Set	28.00	2.00	2.00	4.00
026 686-4150	Drill & tap pressurized main 200mm main to service 25 thru 50 mm				1.75	2.00	1.88	4.57
026 686-4600	Tap & insert gate valve,200 mm, 4600mm main, 100 mm branch				1.50	2.00	1.75	5.33
026 686-8010	Fittings,ductile iron,mechanical joint, 90 deg. bend 100 mm diameter (4")				25.00	29.00	27.00	0.32
026 686-8020	Fittings,ductile iron,mechanical joint, 90 deg, bend 10 mm diameter (4")				15.00	17.00	16.00	0.53
026 686-8040	Fittings,ductile iron,mechanical joint, 90 deg. bend 200 mm diameter (8")				12.00	14.00	13.00	0.66
026 686-8080	Fittings,ductile iron,mechanical joint, 90 deg. bend 300 mm diameter (12")				10.00	12.00	11.00	0.80
026 686-8120	Fittings,ductile iron,mechanical joint, 90 deg. bend 400 mm diameter (16")				8.00	9.00	8.50	1.00
026 686-8180	Fittings,ductile iron,mechanical joint, 90 deg. bend 600 mm diameter (24")				3.00	3.00	3.00	2.66
026 686-8200	Fittings,ductile iron,way or tee, 100 mm diameter (4')				15.00	17.00	16.00	0.53
026 686-8220	Fittings,ductile iron,way or tee, 150 mm diameter (6')				10.00	12.00	11.00	0.80
026 686-8240	Fittings,ductile iron,way or tee, 200 mm diameter (8')				9.00	10.00	9.50	0.88
eligiber -	Fittings,ductile iron,way or tee, 300 mm diameter (12')	7			7.00	8.00	7.50	1.14
026 686-8320	Fittings.ductile iron,way or tee, 400 mm diameter (16')				4.00	5.00	4.50	2.000
026 686-8380	Fittings,ductile iron,way or tee, 600 mm diameter (24')				2.00	2.00	2.00	4.000
26 686-8450	Ductile iron pipe fitting; decrease size 150 x 100 mm				7.00	8.00	7.50	1.14
026 686-8480	Ductile iron pipe fitting; decrease size 1300 x 150 mm				5.00	6.00	5.50	1.600
026 686-8510	Ductile iron pipe fitting: decrease size 600 x 150 mm			1	2.00	2.00	2.00	4.000
26 700	WATER WELLS							
026 704	WELLS:							
026 704-0100	Water well,domestic,drillied and cased,including casing,100 mm to 150 mm diameter	LM	1.000 Eq 4.000 Cd 1.000 Tr	illed Foreman uip. Operator immon Laborers ick Mounted Drill Rig int truck, 3.00 ton	8.00	9.00	8.50	2.000
26 704-0200	Water well,domestic,drilled and cased,including casing, 200 mm diameter		1		6.00	7.00	6.50	2.667
26 704-0800	Observation wells, 32 mm riser pipe	•			8.50	10.00	9.25	1.882
26 704-1300	Water well test,100 mm diameter upto 14 m deep	EA			1.00	1.00	1.00	16.000
26 704-0200	Water well, gravel pack, including gravel, casing, seal, & filter, 600 mm dia.	LM	8		1.25	1.50	1.38	12.800
26 704-1900	Water pump,installed in wells to 30 m deep wells, 100mm submersible, 3 HP		1.000 Sk	lled Foreman lled worker imber Apprentice ols Set	0.85	1.00	0.93	9.412
26 704-3000	Well,water pump submersible,150 mm, 25 HP, 210 GPM,installed in wall upto 45 m deep				0.60	1.00	0.80	13.333
26 704-3100	Well, water pump submersible, 150 mm, 30 HP, 210 GPM, installed in well upto 150 m deep				0.50	1.00	0.75	16 000
26 800	FUEL DISTRIBUTION							
26 804	GAS STATION PRODUCT LINE							
26 804-0020	Primary containment pipe,fiberglass-reinforced,plastic pipe 4.5 m & 9 m lengths, 50 mm diameter	LM	1.000 Ski	led Foreman led worker mber Apprentice ks Set	42.00	48 00	45.00	0.190
26 804-0060	Primary containment pipe, fiberglass-reinforced, plastic pipe 4.5 m & 9 m lengths, 100 mm diameter	3			35.00	40.00	37.50	0.229
26 804-0130	Gas pipe fittings,elbow, 90 deg. & 45 deg.,bell-ends,100 mm diameter	EA			10.00	12.00	11.00	0.800
26 BUY 0550	Gas pipe fittings,tee,bell-ends,100 mm diameter	T			8.00	9.00	8.50	1.000

X-5811	02 : SITE WORK		1111	ODEW				2.0	AMBO
CODE	ITEM DESCRIPTION	UN	IIT	STRUCTURE		D.O. MIN.	D.O. MAX.	D.O. AVRG	AVRG. E.H.
026 804-0250	Gas pipe fittings,flanges bell ends,100 mm diameter					10.00	12.00	11.00	0.80
026 804-0280	Gas pipe fittings,sleeve couplings,100 mm diameter					8.00	9.00	8.50	1.00
026 804-0310	Gas pipe fittings,threaded adapters,100 mm diameter					8.00	9.00	8.50	1.00
026 804-0340	Gas pipe fittings,reducer,100 mm x 50 mm diameter	1		+		10.00	12.00	11.00	0.80
026 852	GAS DISTRIBUTION SYSTEM								
026 852	GAS SERVICE & DISTRIBUTION:								
026 852-0100	Gas piping.not including excavation or back fill,polyethylene, 415 kPa,coils, 32 mm diameter,SDR 11	L	И	0.125 Skilled Foreman 1.000 Skilled worker 1.000 Plumber Apprentice 1.000 Tools Set		75.00	86.00	80.50	0.10
026 852-020 0	Gas piping.not including excavation or back fill,polyethylene, 415 kPa,coils, 75 mm diameter,SDR 11			.,,		60.00	69.00	64.50	0.13
026 852-0550	Gas piping,not including excavation or back fill,steel,schedule 40,palin end,tar coated & wrapped 25 mm diameter			0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Welder 1.000 Common Laborer 1.000 Electric Welding Mach	ine	70.00	81,00	75.50	0.114
026 852-0600	Gas piping,not including excavation or back fill,steel,schedule 40,palin end,tar coated & wrapped 50 mm diameter					55.00	63.00	59.00	0.145
026 852-0700	Res nining not including execution or back fill clear enhance AD natio and tar coated &	LA	A	0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Welder 1.000 Common Laborer 1.000 Electric Welding Mach	ine	72.00	83.00	77.50	0.111
026 852-0800	Gas piping not including excavation or back fill, steel, schedule 40, palin end, tar coated &					48.00	55.00	51.50	0.167
026 852-6002	wrapped 150 mm diameter Gas piping,not including excavation or back fill,steel,schedule 80,palin end,tar coated & wrapped 100 mm diameter					18.00	21.00	19.50	0.444
026 852-6008	Gas piping.not including excavation or back fill,steel,schedule 80,palin end,tar coated & wrapped 200 mm diameter					14.00	16.00	15.00	0.571
026 852-8008	Gas pipe fittings,elbow,weld joint,standard weight 100 mm diameter				H	5.50	6.00	5.75	1.455
	Gas pipe fittings,elbow,weld joint,standard weight 600 mm diameter					0.85	1.00	0.93	9.412
026 852-8102		E/			Н	4.50	5.00	4.75	1.778
	Gas pipe fittings,elbow,weld joint,extra heavy weight 600 mm diameter	T	9		8	0.70	1.00	0.85	11.429
026 858	PIPING, VALVES, GAS DISTRIBUTION								
026 858-0140	Gas piping valves,gas stops,with or without checks 32 mm size	EA		0.125 Skilled Foreman 1.000 Skilled worker 1.000 Plumber Apprentice 1.000 Tools Set		20.00	23.00	21.50	0.400
026 858-0200	Gas piping valves,gas stops,with or without checks 50 mm size					13.00	15.00	14.00	0.615
026 858-0680	Gas piping valves,pressure regulator,iron and bronze					6.50	7.00	6.75	1.231
026 858-0740	50mm diameter Gas piping valves,pressure regulator,iron and bronze					3.00	3.00	3.00	2.667
026 856-0740	100 mm diameter Gas piping valves,pressure regulator, iron and bronze	-	-		H	3.00	3.00	3.00	2.007
026 858-0780	150 mm diameter	1				1.75		1.75	4.571
027	SEWERAGE & DRAINAGE					WE S			
027 100	SUBDRAINAGE SYSTEMS								
027 108	PIPING, SUBDRAINAGE, CONCRETE:								
027 108-3020	Subdrainage piping, no excavation for fill, porous wall concrete pipe standard length 150 mm diameter	LN		0.125 Skilled Foreman 1.000 Skilled worker 1.000 Plumber Apprentice 1.000 Tools Set		56.00	64.00	60.00	0.143
027 108-3060	Subdrainage piping, no excavation for fill, porous wall concrete pipe standard length 300 mm diameter			0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common Laborer 0.500 Equip Operator 0.500 Crane 11 ton 1.000 Tool Set	100	48.00	55.00	51.50	0.250
027 108-3100	Subdrainage piping, no excavation for fill, porous wall concrete pipe standard length 450 mm diameter					30.00	35.00	32.50	0.400
027 110	PIPING, SUBDRAINAGE, CORRUGATED METAL:					n 7	263	. 17	v
027 110-2020	Subdrainage piping, no excav. or fill, corrugated aluminum, perforated, 150 mm diameter, 18 gauge	LM		0.125 Skilled Foreman 1.000 Skilled worker 1.000 Plumber Apprentice 1.000 Tools Set		60.00	69.00	64.50	0.133
027 110-2240	Subdrainage piping, no excav. or fill, corrugated aluminum, perforated, 300 mm diameter, 16 gauge			0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common Laborer 0.500 Equip. Operator 0.500 Crane 11 ton 1.000 Tool Set		45.00	52.00	48.50	0.267
027 110-4000	Subdrainage piping, no excav. or fill, corrugated steel, perforated, asphalt coated, 150 mm diameter, 18 gauge			0.125 Skilled Foreman 1.000 Skilled worker 1.000 Plumber Apprentice 1.000 Tools Set		60.00	69.00	64.50	0.133

CODE	ITEM DESCRIPTION	UN	Т	CREW STRUCTURE	D.O. MIN.	D.O. MAX.	D.O. AVRG	AVRG. E.H.
027 110-4050	Subdrainage piping, no excav. or fill, corrugated steel, perforated, asphalt coated, 300 mm diameter, 16 gauge			0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common Laborer 0.500 Equip. Operator 0.500 Crane 11 ton 1.000 Tool Set	45.00	52.00	48.50	0,26
027 112	PIPING, SUBDRAINAGE, VITRIFIED CLAY:							
027 112-3020	Subdrainage piping, no excav. or fill, vitrified clay perforated, 1.5 m length, 150 mm diameter	LM		0.125 Skilled Foreman 1.000 Skilled worker 1.000 Plumber Apprentice 1.000 Tools Set	63.00	72.00	67.50	0.12
027 112-3060	Subdrainage piping, no excav. or fill, vitrified clay perforated, 1.5 m length, 300 mm diameter	W.		0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common Leborer 0.500 Equip. Operator 0.500 Crane 11 ton 1.000 Tool Set	48.00	55.00	51.50	0.25
027 150	SEWAGE SYSTEMS							
027 152	CATCH BASINS OR MANHOLES:			16.				
027 152-0800	Manhole without frame & covers, concrete cast in place 1.2 m x 1.2 m x 0.2 m thick & 1.2 m deep	EA		0.250 Skilled Foreman 5.000 carpenters 1.000 Steel Fixer 0.125 Cement Finisher 3.000 Common Laborers 0.500 Equip. Operator 0.125 Gas Engine Vibrator 0.125 Gas Engine Vibrator 0.125 Concrete Pump small 8 transit mixer 0.375 Crane 23 ton 0.125 Bed Truck 4.000 Power Tools	1.65	2.00	1.83	23.030
027 152-1000	Manhole without frame & covers, concrete cast in place 1.2 m x 1.2 m x 0.2 m thick & 2.4 m deep				1.10	1.00	1.05	34.545
027 152-1100	Manhole depth over 2.4 m add to above labor cost for every extra meter of depth.		1		3.29	4.00	3.65	11.550
ARCHO II TANS PATRICINO	Manhole frames & covers, C.I., 600 mm square, 227 kg			0.125 Skilled Foreman 2.000 Common Laborers 0.500 Equip Operator .5000 Backhoe Loader, 50 HP	5.50	6.00	5.75	0.727
027 152-1800	Manhole frames & covers, C.l., light traffic, 450 mm, diameter, 45 kg				7.00	8.00	7.50	0.571
027 152-2100	Manhole frames & covers, C.I., heavy traffic, 600 mm, diameter, 181 kg				5.50	6.00	5.75	0.727
027 152-2500	Manhole frames & covers, C.I., water tight, 600 mm, diameter, 160 kg				5.50	6.00	5.75	0.727
027 162	PIPING, DRAINAGE & SEWAGE, CONCRETE:							
027 162-1010	Sewer drainage, concrete pipe no excav. or fill, non-reinforced, extra strength, tongue & groove,150 mm diameter	LM		0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Plumber Apprentice 1.000 Tool Set	24.00	28.00	26.00	0.333
027 162-1040	Sewer drainage, concrete pipe no excav. or fill, non-reinforced, extra strength, tongue & groove 300 mm diameter				27.00	31.00	29.00	0.444
027 162-1080	Sewer drainage, concrete pipe no excav. or fill, non-reinforced, extra strength, 600 mm diameter			0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common Laborer 0.500 Equip. Operator 0.500 Crane 11 ton 1.000 Tool Set	26.00	30.00	26.00	0.462
027 162-2240	Concrete reinforced culvert, size 600 mm diameter, with gaskets	LM		0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common Laborer 0.500 Equip. Operator 0.500 Crane 11 ton 1.000 Tool Set	18.00	21.00	19.50	0.667
27 162-2290	Concrete reinforced culvert, size 1.2 m diameter, with gaskets				6.00	7.00	6.50	2.000
27 162-2310	Concrete reinforced culvert, size 1.8 m diameter, with gaskets				3.50	4.00	3.75	3.429
27 162-2310	Concrete reinforced culvert, size 2.1 m diameter, with gaskets				3.00	3.00	3.00	4.000
27 162-2310	Concrete reinforced culvert, size 2.4 m diameter, with gaskets	1		•	2.50	3.00	2.75	4.800
27 164	PIPING, STORM DRAINAGE, CORRUGATED METAL:							
	Sewer / drainage piping; no excav. or fill, corrugated metal, galvanized or aluminum,bituminous coated with paved invert, 6 mm lengths, 200 mm diameter, 16 ga.	LM	1	0.125 Skilled Foreman 0.000 Skilled Worker 0.000 Common Laborer 0.500 Equip Operator 0.500 Crane 11 ton 0.000 Tool Set	56.00	64.00	60.00	0.214
	Sewer / drainage piping, no excav. or fill, corrugated metal, galvanized or aluminum, bituminous coated with paved invert, 6 mm lengths, 600 mm diameter, 14 ga.		T	*	45.00	52,00	49.50	0.94
27 164-2200	Sewer / drainage piping: no excav. or fill, corrugated metal, galvanized or aluminum, bituminous coated with paved invert, 6 mm lengths, 1.2m diameter, 12 ga.		2	0.125 Skilled Foreman 0.000 Skilled Worker 0.000 Common Laborer 0.500 Equip. Operator 0.500 Pipe Layer 0.000 Tool Set	9.00	10.00	9.50	1.333

1000 Tools Set 1500		Page 1
27 166 100 Sever piping, no excess or fill, plastic reinforced, general strength 100 mm diameter 100 Select Works 100	D.O. AVRG	AVRG. E.H.
27 166-1020 Sewer piping, no excav. or fill, plastic reinforced, general strength 100 mm diameter 100 bmm diameter 100	4.50	3.00
2027 166-1020 Sever piping, no excav. or fill, plastic reinforced, general strength 150 mm diameter 1000 Tablet Formure 1000		
10.27 166-1020 Sewer piping, no excav. or fill, plastic reinforced, general strength 200 mm diameter 1.00 Common Latural 1.000 State Worker 1.000 Common Latural 1.000	37.50	0.22
27 166-1020 Sever piping, no excav. or fill, plastic reinforced, general strength 200 mm diameter 1,000 Character 1,000 Cap. Operator 1,000	29.00	0.29
227 166-5000 Sower piping, no excav. or fill, plastic reinforced, high shrength 100 mm diameter 1,000 Pursure Approximation 1,000 Tools Set 1,000	29.00	0.44
1.000 Select Vindors 1.000 Select Center 1.000 Select Vindors 1.000	19.50	0.66
1.000 Saket Worker 1.000 Common Laborer 1.000 Common Labore	37.50	0.229
1.000 Sewer piping, no excav. or fill, plastic reinforced, high strength 1.000	29.00	0.444
1,000 Plastic piping fittings; elbow 100 mm diameter	19.50	0.667
127 166-9610 Plastic piping fittings; Wyes and tees; 100 mm diameter	11.00	0.800
1.00 1.00	4.50	2.000
1027 166-9630 Plastic piping fittings; Wyes and tees; 200 mm diameter	6.75	1.231
0.27 168 950 Plastic piping fittings; Wyes and tees; 300 mm diameter 3.50 4.00	4.75	1.778
10.27 168 PIPING, DRAINAGE & SEWAGE, POLYVINYL CHLORIDE: 0.27 168-2000 Sewer /Drainage piping, no excav. or fill, PVC, 3 m sections SDR 35, 100 mm dia. I.M. 1.000 Sieled Worker 1.000 Tools Set 1	4.50	2.000
0.125 Skilled Foreman 1.000 Silled Worker 1.000 Tools St 1.000 Too	3.75	2.286
1.000 Siked Worker 1.000 Tools Set 1.000 T		
227 168-2080 Sewer /Drainage piping, no excav. or fill, PVC, 3 m sections SDR 35, 200 mm dia.	75.50	0.114
0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Cammon Laborer 0.500 Crane 11 ton 1.000 Tools Set 1.000 Too	58.00	0.148
1.000 Skilled Worker 1.000 Common Laborer 1.000 Control Set 1.000 Enumbro Apprentice 1.000 Enumbro	54.00	0.160
1.000 Skilled Worker 1.000 Tools Set 1.000 Skilled Worker 1.000 Tools Set 1.000 Skilled Worker 1.000 Tools Set 1.000 Tools S	45.00	0.286
27 168-3120 PVC piping fittings, tees, 100 mm diameter 27 168-3160 PVC piping fittings, tees, 150 mm diameter 27 168-3200 PVC piping fittings, wyes, 100 mm diameter 28 0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Plumber Apprentice 1.000 Tools Set 1.000 Common Laborer 0.500 Equip Operator 0.500 Tools Set 1.000 Tools Set 1	11.00	0.800
27 168-3160 PVC piping fittings, tees, 150 mm diameter 27 168-3200 PVC piping fittings, wyes, 100 mm diameter EA 1.000 Skilled Foreman 1.000 Skilled Worker 1.000 Plumber Apprentice 1.000 Tools Set 27 168-3240 PVC piping fittings, wyes, 150 mm diameter 27 172 PIPING, DRAINAGE & SEWAGE, VITRIFIED CLAY C700 Sewer/drainage piping, no excav. or fill, vitrified clay, extra strength, compression joints, 200 mm diameter x 1.5 m long Sewer/drainage piping, no excav. or fill, vitrified clay, extra strength, compression joints, 1.000 Skilled Foreman	8.25	1.067
27 168-3200 PVC piping fittings, wyes, 100 mm diameter EA 1.000 Skilled Worker 1.000 Plumber Apprentice 1.000 Tools Set 1.000 Skilled Foreman 1.000 Skilled Foreman 1.000 Skilled Foreman 1.000 Skilled Worker 1.000 Common Laborer 0.500 Equip Operator 0.500 Equip Operator 0.500 Carne 11 ton 1.000 Tools Set	6.75	1.231
PVC piping fittings, wyes, 100 mm diameter EA 1.000 Skilled Worker 1.000 Plumber Apprentice 1.000 Plumber Apprentice 1.000 Tools Set 5.50 7.00 7.00 PVC piping fittings, wyes, 150 mm diameter PIPING, DRAINAGE & SEWAGE, VITRIFIED CLAY C700 Sewer/drainage piping, no excav. or fill, vitrified clay, extra strength, compression joints, 200 mm diameter x 1.5 m long Sewer/drainage piping, no excav. or fill, vitrified clay, extra strength, compression joints, 1.000 Common Laborer 0.500 Equip. Operator 0.500 Equip. Operator 0.500 Carne 11 ton 1.000 Tools Set 27.172-5080 Sewer/drainage piping, no excav. or fill, vitrified clay, extra strength, compression joints, 27.000 Tools Set 27	5.75	1.455
PIPING, DRAINAGE & SEWAGE, VITRIFIED CLAY C700 Sewer/drainage piping, no excav. or fill, vitrified clay, extra strength, compression joints, 200 mm diameter x 1.5 m long Sewer/drainage piping, no excav. or fill, vitrified clay, extra strength, compression joints, 27.172-5080 Sewer/drainage piping, no excav. or fill, vitrified clay, extra strength, compression joints, 27.00 Tools Set	6.75	1.231
Sewer/drainage piping, no excav. or fill, vitrified clay, extra strength, compression joints, 200 mm diameter x 1.5 m long One of the compression in the compression joints, 200 common Laborer 0.500 Equip. Operator 0.500 Crane 11 ton 1.000 Tools Set 27.172-5080 Sewer/drainage piping, no excav. or fill, vitrified clay, extra strength, compression joints, 27.000 common Laborer 0.500 Crane 11 ton 1.000 Tools Set 27.000 common Laborer 0.500 Crane 11 ton 1.000 Tools Set 27.000 common Laborer 0.500 Crane 11 ton 1.000 Tools Set 27.000 common Laborer 0.500 Crane 11 ton 1.000 Tools Set 27.000 common Laborer 0.500 Crane 11 ton 1.000 Tools Set 27.000 common Laborer 0.500 Crane 11 ton 1.000 Tools Set 27.000 common Laborer 0.500 Crane 11 ton 1.000 Tools Set 27.000 common Laborer 0.500 Crane 11 ton 1.000 Tools Set 27.000 common Laborer 0.500 Crane 11 ton 1.000 Tools Set 27.000 common Laborer 0.500 Crane 11 ton 1.000 Tools Set 27.000 common Laborer 0.500 Crane 11 ton 1.000 Tools Set 27.000 common Laborer 0.500 Crane 11 ton 1.000 Tools Set 27.000 common Laborer 0.500 Crane 11 ton 1.000 Tools Set 27.000 common Laborer 0.500 Crane 11 ton 1.000 Tools Set 27.000 common Laborer 0.500 Crane 11 ton 1.000 Tools Set 27.000 common Laborer 0.500 Crane 11 ton 1.000 Tools Set 27.000 common	5.75	1.455
Sewer/drainage piping, no excav. or fill, vitrified clay, extra strength, compression joints, 200 mm diameter x 1.5 m long 1.000 Skilled Worker 1.000 Common Laborer 0.500 Equip. Operator 0.500 Crane 11 ton 1.000 Tools Set 27.172-5080 Sewer/drainage piping, no excav. or fill, vitrified clay, extra strength, compression joints, 27.000 Equip.		
27 172-5080 Sewer/drainage piping, no excav. or fill, vitrified clay, extra strength, compression joints,	38.50	0.333
	29.00	0.444
27 172-5140 Sower/drainage plping, no excav. or fill, vitrified clay, extra strength, compression joints, 9.00 mm diameter x 2.1 m lose. 9.00 mm diameter x 2.1 m lose.	9.50	1.333

CODE	ITEM DESCRIPTION	UN	IIT	CREW STRUCTURE	D.O. MIN.	D.O. MAX.	D.O. AVRG	AVRG. E.H.
	Sewer/drainage piping, no excav. or fill, vitrified clay, extra strength, compression joints,				4.00	5.00	4.50	3.00
COURSE PARTY WAS IN	900 mm diameter x 2.1 m long Vitrified clay fittings, 1/4 or 1/8 bend, plain joint, 100 mm diameter			0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Plumber Apprentice 1.000 Tools Set	25.00	29,00	27.00	0.32
127 172-8026	Vitrified clay fittings, 1/4 or 1/8 bend, plain joint, 200 mm diameter			1.000 1003 361	20.00	23.00	21,50	0.40
	Vitrified clay fittings, 1/4 or 1/8 bend, plain joint, 900 mm diameter				2.00	2.00	2.00	4.00
	Vitrified clay fittings, wye & tee, plain joint, 100 mm diameter				20.00	23.00	21.50	0.40
	Vitrified clay fittings, wye & tee, plain joint, 200 mm diameter				15.00	17.00	16.00	0.53
	Vitrified clay fittings, wye & tee, plain joint, 900 mm diameter				0.50	0.60	0.55	16.00
	SEWAGE PUMPING STATIONS:			*				
27 174-0020	Sewage pumping station, prefabricated steel or concrete or fiberglass, 180 GPM	тот	ΓAL	1.000 Skilled Foreman 1.000 Labor Foreman 8.000 Skilled Workers 2.000 Common Laborers 0.250 Equip Oper (crane) 0.250 Crane 80 ton 1.000 Power Tools 1.000 Walk behind Power tools	0.15	0.20	0.18	120.00
)27 174-0200	Sewage pumping station, prefabricated steel or concrete or fiberglass, 900 GPM			1.000 Skilled Foreman 1.000 Labor Foreman 8.000 Skilled Workers 2.000 Common Laborers 0.125 Equip. Oper. (crane) 0.125 Crane 80 ton 1.000 Power Tools 1.000 Walk behind Power tools	0.05	0.07	0.06	360.00
027 176	SEWAGE TREATMENT:							
	Sewage treatment, not including fencing or piping, steel package, blown air aeration plant, 57 CUM/day	CU	M	1,000 Skilled Foreman 1,000 Labor Foreman 8,000 Skilled Workers 2,000 Common Laborers 0,125 Equip, Oper (crane) 0,125 Crane 80 ton 1,000 Power Tools 1,000 Walk behind Power tools	1.50	2.00	1.75	12.00
	Sewage treatment, not including fencing or piping, steel package, blown air aeration plant, 378 CUM/day				2.00	2.00	2.00	9.00
027 176-0800	Sewage treatment, not including fencing or piping, steel package, blown air aeration		O LES		2.50	3.00	2.75	7.20
	plant, 1892 CUM/day	*		· · · · · · · · · · · · · · · · · · ·	30900			
Mary Strange	WASTE WATER SYSTEM WASTEWATER TREATMENT SYSTEM:							
	Wastewater treatment system, fiberglass, 4 CUM / capacity	E	A	0.125 Skilled Foreman 1,000 Skilled Worker 1,000 Common Laborer 0,500 Equip. Operator 0,500 Crane 11 ton 1,000 Tools Set	0.70	1.00	0.85	17.14
027 354-0100	Wastewater treatment system, fiberglass, 5.5 CUM / capacity			Sec	0.50	0.60	0.55	24.00
027 400	SEPTIC SYSTEMS							
027 404	SEPTIC TANKS:		-11/11					
027 404-0200	Septic tanks not included excav. or piping, precast 19 CUM	E	A	0.125 Labor Foreman 4.000 Laborers 0.500 Equip.Oper. (crane) 0.500 Crane 23 ton	1.50	2.00	1.75	2.66
27 404-0300	Septic tanks not included excav. or piping, precast 57 CUM				0.45	0.70	0.58	8.88
27 404-0400	Septic tanks not included excav. or piping, precast 95 CUM				0.30	0.50	0.40	13.33
27 404-0500	Septic tanks not included excav. or piping, precast 150 CUM				0.20	0.30	0.25	20.000
27 404-0600	Septic tank, no excav. fill or piping, high density polythylene, 4 cum				7.00	8.00	7.50	0.57
27 404-0700	Septic tank, no excav. fill or piping, high density polythylene, 5.5 cum	+			4.50	5.00	4.75	0.88
027 404-0800	Septic tank, no excav. fill or piping, cast in place concrete size 57 cum	E	Ą	0.250 Skilled Foreman 5.000 carporiters 1.000 Steel Fixer 0.125 Cement Finisher 3.000 Common Laborers 0.500 Equip Operator 0.125 Gas Engine Vibrator 0.125 Concrete Pump small & transit mixer 0.375 Crane 23 ton 0.125 Bed Truck	0.15	0.25	0.20	256.75
				4:000 FOWEL TOOK	1			

CSI	ITEM DESCRIPTION	UNIT	CREW	Г	DO MIN	D.O. MAX.	D.O.	AVRG.
CODE		Oitii	STRUCTURE		D.O. Milit.	D.O. WAX.	AVRG	E.H.
028	SITE IMPROVEMENTS		At gentlem				ate has a	3/ - 3
028 100	IRRIGATION SYSTEMS			L				
028 104	SPRINKLER IRRIGATION SYSTEM:	_		L				
028 104-0200	Sprinkler irrigation system, for lawn, fully automatic, 7.5 m diameter head at 4.6 m O.C.including piping average	EA	0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Plumber Apprentice 1.000 Tools Set		25.00	29.00	27.00	0.32
028 104-0500	Sprinkler irrigation system, for lawn, fully automatic, 18 m diameter head at 4.6 m O.C.including piping average				15.00	17.00	16.00	0.53
028 104-2000	Sprinkler heads, pop-up spray, head & nozzle, heavy duty brass				32.00	37.00	34.50	0.25
028 104-3000	Sprinkler heads, riser mounted spray, low/medium volume, plastic / brass				32.00	37.00	34.50	0.25
028 104-4000	Sprinkler heads, pop-up impact sprinkler, body & case, plastic low/medium volume				32.00	37.00	34.50	0.25
028 104-5000	Sprinkler heads, quick coupling valve and key, brass, thread type				26,00	30.00	28.00	0.30
028 104-5400	Sprinkler heads, pop-up gear drive sprinkler, nozzle & case plastic, medium volume				32.00	37.00	34.50	0.25
028 104-8000	Sprinkler heads, riser mounted impact sprinkler, body,part or full circle,plastic, low/medium volume				26.00	30.00	28.00	0.30
028 104-9000	Sprinkler system control panel 6 zone				4.00	5.00	4.50	2.00
028 104-9100	Sprinkler system control panel 12 zone				2.75	3.00	2.88	2.90
028 104-9200	Sprinkler system control panel 24 zone	1	•		1.75	2.00	1.88	4.57
028 200	FOUNTAINS							
028 204	FOUNTAINS:			Γ				
028 204-0300	diameter spray ring	EA	0.125 Labor Foreman 1,000 Skilled Worker 2,000 Common Laborer 0,250 Truck Driver (light) 0,250 Flatbed Truck, 3 metri 0,250 Chain winch 1,000 Power Tool	c ton	1.50	2.00	1.75	8.000
028 204-0400	Fountain complete with fiberglass pool, piping 8 light 2,3 m diameter pool 1,2 m diameter spray ring	350	¥		1.00	1.00	1.00	12.000
028 300	FENCES & GATES			L				
028 308	FENCE, CHAIN LINK INDUSTRIAL:							
028 308-0200	aluminum steel	LM	0.125 Labor Foreman 1.000 Skilled Worker 2.000 Common Laborer 0.250 Truck Driver (light) 0.250 Flatbed Truck, 3 metric 1.000 Power Tool		30.00	35.00	32.50	0.333
028 308-0800	Fence, chain link industrial, 1,8 m high, no barbed wire, including 50 mm posts @ 3 m o.c., 40 mm top rail, braces & 6 ga. wire, galvanized steel or aluminum steel				32.00	37.00	34.50	0.313
028 308-1100	Fence galvanized steel corner posts 75 mm. no concrete	EA			24.00	28.00	26.00	0.417
028 308-1300	Fence galvanized or aluminium braces.			T	45.00	52.00	48.50	0.222
028 308-1400	Industrial fence gate for 1.8 m high fence, 40 mm frame, 900 mm wide, galvanized steel				6.50	7.00	6.75	1.538
028 308-2000	or aluminum Fence, chainlink, industrial, 1.5 m high including posts @ 3 m. o.c. 40 mm top rail, braces & 9 ga. wire galvanized or aluminum steel.			t	36.00	41.00	38.50	0.278
028 308-2400	Fence gate, 1.2 m wide, 1.5 m high, 50 mm frame, galvanized			T	6.50	7.00	6.75	1.538
	steel or aluminum Fence swinging gate, 3m high, 4.5 m wide motor operated, no wiring.	OPENING		1	0.50	0.70	0.60	20.000
	Fence swinging gate, 3 m high, 9 m wide, motor operated, no wiring.	1000		1	0.30	0.50	0.40	33.333
Orași de la compania	Fence swinging gate, 3 m high, 14 m wide, motor operated no wiring.				0.25	0.40	0.33	40.000
	Fence, double swing gates, including posts & hardware 1.5 m high, 3.6 m opening				2.50	3.00	2.75	4.000
028 308-5020	Fence, double swing gates, including posts & hardware 1.5 m high,			T	2.00	2.00	2.00	5.000
	6 m opening	-	<u> </u>	H			100000	
	Fence, double swing gates, including posts & hardware 1.8 m high, 3.6 m opening	-		-	2.25	3.00	2.63	4.444
The Section of Section 1	Fence, double swing gates, including posts & hardware 3.6 m high, 3.6 m opening		<u> </u>	-	0.75	1.00	0.88	13.333
028 312	Fence, CHAIN LINK RESIDENTIAL: Fence chain link, tennis court, 215 mm posts, 3 m O.C., 40 mm top rail, 3.6 m high,11 gauge wire.11 gauge wire	LM	0.125 Labor Foreman 1.000 Skilled Worker 2.000 Common Laborer 0.250 Truck Driver (light) 0.250 Flatbed Truck, 3 metric		20.00	23.00	21.50	0.500

CSI CODE	ITEM DESCRIPTION	UNI	CREW STRUCTURE	D.O. MIN.	D.O. MAX.	D.O. AVRG	AVRG. E.H.
028 320-030	D Fence, chicken wire, galvanized steel, 12 ga., 50 mm x 100 mm, mesh, 1.5 m high	LM	0.125 Labor Foreman 1.000 Skilled Worker 2.000 Common Laborer 0.250 Truck Driver (4ght) 0.250 Flatbed Truck, 3 metric for 1.000 Power Tool	45.00	52.00	48.50	0.22
028 324	FENCE, WOOD:		1100011011011001	-			
028 324-120	Fencewood, stockade, cedar, treated wood, 4 rails each 80 mm, 1.8 mm high	LM	0.125 Labor Foreman 2.000 Skilled Workers 2.000 Power Tools	24.00	28.00	26.00	0.66
028 324-125	Fencewood, gate,1m wide, 1.8 m high			6.00	7.00	6.50	2.66
028 400	WALK/ROAD/PARKING APPARATUS						
028 402	BOLLARDS:						
028 402 2000	Bollards, cast iron, 300 mm base, 1 meter high, footing included.	EA	0.125 Labor Foreman 2.00 Skilled Worker 3.00 Laborers 0.500 Equip Operator light 0.5000 Gradal, 3.00 metric ton 1.000 Power tools	25.00	29.00	27.00	0.48
028 402 2100	Bollard, granite, 400 x 400 x mm base, I meter high, footing included, wiring not included.			15.00	17.00	16.00	0.800
028 402 2200	Bollards metal lighted 450 mm hose 1 metar high feeting included	††		22.00	25.00	23.50	0.548
028 402 2300	Religide pine metal filled with assessed a sixty 450 and 4.50 and 4.50 and 4.50 and 5.50 and			20.00	23.00	21,50	0.600
028 402 2400	Bollards, precast concrete, 300 x 300 x 900 mm, exposed aggregate, footing included.			22.00	25.00	23.50	0.545
028 404	GUIDE RAIL:	. *	Y		((2)(2)(2)(2)		0.070
028 404-0100	Guide rail, corrugated steel, galvanized steel posts, 2 m, O.C. 1.2 m high, double face	LM	0.125 Labor Foreman 2.000 Skilled Workers	65.00	75.00	70.00	0.246
	Guide rail, steel box beam, 150 mm x 150 mm, 1.2 m high, posts 3 m o.c.		2.000 Power Tools 0.125 Labor Foreman 2.00 Skilled Worker 3.00 Laborers 0.500 Equip. Operator light	20.00	23.00	21.50	0.600
			0.5000 Gradali, 3.00 metric ton 1.000 Power tools				
028 404-1100	Median barrier, steel box beam, 150 mm x 200 mm			35.00	40.00	37.50	0.343
028 404-1400	Resilient guide fence and light shield, 1.8 m high, with 2 m high metal or wood square posts 3 m o.c.			16.00	18.00	17.00	0.750
- Paris Color - Col	Guiderail, concrete posts, individual, 2 m triangular or square			60.00	69.00	64.50	0.200
028 408	PARKING BARRIERS:		ROLLY CONTROL OF				
028 408-1000	Wheel stops,precast concrete including dowels,150 mm x 250 mm x 1.8 m long	EA	0.125 Labor Foreman 2.00 Skilled Worker 3.00 Laborers 0.500 Equip Operator light 0.500 Gradall, 3.00 metric ton 1.000 Power tools	70.00	81.00	75.50	0.171
028 408-1100	Wheel stops,precast concrete,including dowels, 200 mm x 330 mm x 1.8 m long			70.00	81.00	75.50	0.171
028 408-1200	Wheel stops,thermoplastic 150 mm x 250 mm x 1.8 m long			80.00	92.00	86.00	0.150
028 412	SIGNS:						
028 412-1200	Guide and directional signs, 600 mm x 600 mm, reflectorized or high intensity with steel post 3 m high bolted	EA	0.125 Labor Foreman 2.00 Skilled Worker 3.00 Laborers 0.500 Equip. Operator light 0.5000 Gradali, 3.00 metric ton 1.000 Power tools	24.00	28.00	26.00	0.500
28 412-1800	Highway road signs, aluminum, over 2 SOM, reflectorized or high intensity. fixed on 2 each, 6 meter high posts & including footings.	SQM		24.00	28.00	26.00	0.500
28 412-2200	Highway road signs, aluminum, 10 sqm, reflectorized or high intensity, suspended over road.	19		12.00	14.00	13.00	1.000
28 416	STEPS:		<u> </u>				
28 416-0300	Bluestone steps treads, 300 mm x 50 mm or 300 mm x 40 mm including excav., borrow & concrete base	M RISER	0.125 Labor Foreman 2.00 Skilled Worker 3.00 Laborers 0.500 Equip Operator light 0.5000 Gradell, 3.00 metric ton 1.000 Power tools	12.00	14.00	13 00	1 000
28 416-0500	Concrete, cast in place, See division 034-804		1				
28 424	TRAFFIC SIGNALS:						
	Traffic signals, pedestrian intersection, 8 signals, 2 each direction, programmed & with pedestrian pushbuttons and mast arms	TOTAL	0.125 Skilled Foreman 2.000 Electrician 2.000 Helpers 0.500 Equip Opertor (crane) 1.000 Power tools	0.03	0.09	6.3	130 171
			0.500 SP Crane, 4.5 ton			1	

CSI	ITEM DESCRIPTION	UNIT	CREW	DO MIN	D.O. MAX.	D.O.	AVRG.
CODE	ITEM DESCRIPTION	UNIT	STRUCTURE	D.O. MIN.	D.O. MAX.	AVRG	E.H.
028 604	BACKSTOPS:	_					
028 604-0300	Backstop for basketball, steel and with single pole	LM	0.125 Labor Foreman 2.00 Skilled Worker 3.00 Laborers 0.500 Equip. Operator light 0.5000 Gradall, 3.00 metric ton 1.000 Power tools	10.00	12.00	11.00	1.20
028 604-0400	Backstop for basketball, steel and double pole		1 10	7.00	8.00	7.50	1.71
028 604-0900	Backstop,wood, for handball or squash court, outdoor		0.125 Labor Foreman 2.000 Skilled Workers 2.000 Power Tools	0.45	0.75	0.60	35.55
028 604-1000	Backstop,masonry, for handball or squash court outdoor	EA		0.30	0.50	0.40	53.33
028 608	GOAL POSTS:	200					
028 608-0100	Goal posts steel, double support, soccer, regulation	PAIR	0,125 Skilled Foreman 1,000 Skilled Worker 1,000 Common Laborer 0,500 Equip Operator 0,500 Crane 11 ton 1,000 Tool Set	0.75	1.00	0.88	16.00
028 612	PLAYGROUND EQUIPMENT:	00					
028 612-0400	Playground Equipment, Horizontal monkey ladder, 4.3 m long, 2.3 m high.	EA	0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common Laborer 0.500 Equip. Operator 0.500 Crane 11 ton 1.000 Tool Set	2.50	3.00	2.75	4.800
028 612-0590	Playground Equipment, Parallel bars, 3m long			2.50	3.00	2.75	4.800
028 612-1900	Playground Equipment, slides, stainless steel bed 450 mm wide, 3.6 m long, 1.8 m high			1.50	2.00	1.75	8.000
028 612-2000	Playground Equipment, slides, stainless steel bed 450 mm wide, 6 m long, 3 m high		gr gr	1,25	1.00	1.13	9.600
028 612-2200	Playground Equipment, swings, pipe framed two end legs, 2.4 m high, plain seats, 4			1.25	1.00	1.13	9.600
028 612-2300	seats Playground Equipment,swings, pipe framed two end legs, 2.4 m high,plain seats, 8			0.85	1.00	0.93	14.118
028 612-2500	Seats Dispersional Equipment purious pine framed two and lose 2.6 m high plain seats 4.	-	 	0.75	1.00	0.88	16.000
Brancon - war in	Seats	+	<u> </u>	0.75	1.00	0.86	16.000
028 620	PLATFORM PADDLE TENNIS COURT:		0.125 Skilled Foreman	1			
028 620-0100	Platform paddle tennis court complete with lighting,etc. Aluminum slate deck with aluminum frame	EA	1.000 Skilled Worker 1.000 Common Laborer 0.500 Equip. Operator 0.500 Crane 11 ton 1.000 Tool Set	0.06	0.07	0.07	200.000
028 700	SITE/STREET FURNISHINGS	NI-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		311			
028 704	BENCHES:						
028 704-0050	Benches park,precast concrete,with backs,wood rails,1.2 m long	EA	0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common Laborer 0.500 Equip. Operator 0.500 Crane 11 ton 1.000 Tool Set	5.00	6.00	5.50	2.400
028 704-0510	Benches park,steel pedestals with backs, 50 mm x 75mm wood rails, 2.4 m long			6.00	7.00	6.50	2.000
028 704-0610	Benches park, aluminum pedestals, with backs, aluminum slats, 4.6 m long	+		5.00	6.00	5.50	2,400
028 708	BLEACHERS:						
028 708-0050	Bleachers outdoor,protable, 3 to 5 tiers,to 90 m long minimum	Seat	0.125 Labor Foreman 2.000 Skilled Workers 2.000 Power Tools	105.00	121.00	113.00	0.152
028 708-0100	Bleachers outdoor,protable, 3 to 5 tiers,less than 5 m long prefabricated	- E		75.00	86.00	80.50	0.213
028 716	PLANTERS:						
028 716-0050	Planters conc.,sandblasted,precast,1.2 m dia., 600 mm high	EA	0.125 Skilled Foreman 2.000 Common Laborer 1.000 Equip. Operator 1.000 Crane 11 ton	20.00	23.00	21.50	0.400
28 716-0400	Planters, fiber glass,circular,1.5 m dia., 600 mm high			15.00	17.00	16.00	0.533
28 716-0900	Planter /bench fiberglass, 1.8 m square, 900 mm high			15.00	17.00	16.00	0.533
28 720	TRASH CLOSURE:						
28 720-0300	Trash closure, wood, 3 m wide, 1.8 m high , 3 m long	EA	0.125 Skilled Foreman 2.000 Common Laborer 1.000 Equip. Operator 1.000 Crane 11 ton	3.00	3.00	3.00	2.667
28 720-0300	Trash closure, precast concrete, 1.2 m wide, 1.2 m high , 1.5 m long			3.00	3.00	3.00	2.667
28 724	TRASH RECEPTACLE:						

CSI CODE	ITEM DESCRIPTION	UNI	Т	CREW STRUCTURE	D.O. MIN.	D.O. MAX.	D.O. AVRG	AVRG. E.H.
028 724-0100	Trash receptacle, fiberglass, 600 mm square, 760 mm high	EA	2	. 125 Skilled Foreman . 000 Common Laborer . 000 Equip. Operator . 000 Crane 11 ton	36.00	41.00	38.50	0.22
029	LANDSCAPING				THE			
029 100	SHRUB/TREE TRANSPLANTING							
029 104	TREE GUYING:							
029 104-0100	Tree guying including stakes, guy wire and wrap less than 75 mm caliper, 2 stakes	EA	2	.125 Labor Foreman .000 Common Laborer .000 Tools Set	25.00	29.00	27.00	0.640
029 104-1300	Tree guying including arrowhead anchor, cable, turnbuckles and wrap 150 mm caliper, 150 mm anchors				9.00	10.00	9.50	1.778
029 104-1400	Tree guying including arrowhead anchor, cable, turnbuckles and wrap 200 mm caliper,		Ť		6.00	7.00	6.50	2.667
029 200	200 mm anchors SOIL PREPARATION	Ψ.	_	Y		0.530		350000
029 204	LAWN BED PREPARATION:			VIII				-
020 204	EATH DED FILE ANATION.		0	.125 Labor Foreman				
029 204-020 0	Rake topsoil, site material, harley rock rake, adverse	SOM	1.	.000 Laborers .000 Equip Operator .000 Backhoe Loader 85 HP	500.00	575.00	537.50	0.016
029 204-1050	Remove topsoil & pile on site 75 HP dozer, 150 mm deep, 100 m haul		0	.00 Equip. Operator .500 Laborer .000 Dozer, 75 HP	707.00	813.00	760.00	0.011
029 204-1100	Remove topsoil & pile on site 75 HP dozer, 300 mm deep, 15 m haul				1,050.00	1,208.00	1,129.00	0.008
029 204-1150	Remove topsoil & pile on site 75 HP dozer, 300 mm deep, 90 m haul				3 53.00	406.00	379.50	0.023
029 204-1920	Remove rocks & debris from grade, with rock picker	1	D.	000 Equip Oper (med.) 500 Laborer 000 F.E. Loader, W.M., 0,76M3	10,000.00	11,500.00	10,750.00	0.001
029 204-3500	Screen topsoil from stockpile, vibrating screen, wet material (organic)	CUM	0.	000 Equip.Oper.(med.) 500 Laborer 000 F.E. Loader,T.M.,1.91M3	125.00	144.00	134.50	0.064
029 204-3550	Screen topsoil from stockpile, vibrating screen, dry material (organic)			*	200.00	230.00	215.00	0.040
029 204-3800	Spread top soil, from stockpile, 150 mm deep, 15 meter far.	ļ	0.	00 Equip. Operator 500 Laborer 000 Dozer, 75 HP	707.00	813.00	760.00	0.011
029 204-4100	Fertilizer, 0.11 kg/SQM, push spreader	SQM		Building Laborer Gas Eng Tool	10,000.00	11,500.00	10,750.00	0.001
029 204-4150	Fertilizer, 0.11 kg/SQM, tractor spreader		0.1	000 Equip. Operator (med.) 5090 Laborer 000 Wheel Loader, 55 HP, W/ tachment	60,000.00	69,000.00	64,500.00	0.000
029 204-4400	Spread manure 10 kg/m2, push spreader		1	Building Laborer	1,500.00	1,725.00	1,612.50	0.005
	Spread manure 10 kg/m2, tractor spreader		+	Gas Eng Tool	3,000.00	3,450.00	3,225.00	0.010
	Tilling topsoil, 20 HP tractor, disk harrow, 150 mm deep		0.8	000 Equip Operator (med.) 5000 Laborer 000 Wheel Loader, 55 HP, W/ tachment.	25,000.00	28,750.00	26,875.00	0.000
029 208	PLANT BED PREPARATION:							
029 208-0100	Backfill planting pit, by hand, on site topsoil	CUM		000 Common Laborer 000 Tool Set	10.00	12.00	11.00	0.800
029 208-1000	Excavate planting pit, by hand, sandy soil		11.		4.50	5.00	4.75	1.778
029 208-2000	Mix planting soil, including loam, manure, peat, by skid steer loader	СМ	1.0	125 Skilled Foreman 000 Laborers 000 Equip, operator 000 Loader, Skid Steer	225.00	259.00	242.00	0.036
29 300	LAWNS & GRASSES							
29 304	SEEDING:							
29 304-0100	Seeding mechanical, 240 kg/hectare	SQM		Building Laborer Gas Eng. Tool	10,000.00	11,500.00	10,750.00	0.001
029 304-0600	Limestone, hand push spreader				14,000.00	16,100.00	15,050.00	0.001
29 304-0800	Grass seed hand push spreader, 0.022 kg/SQM				14,000.00	16,100.00	15,050.00	0.001
29 304-1900	Seeding by aerial operations, lawn seed	Hectare	2.0 1.0	000 Skilled Foreman 000 Common Laborers 000 Equip Operator 000 Backhoe Loader, 50 kW 000 Small helicopter w/pilot	16.00	18.00	17.00	1.000
29 316	SODDING:				7 - 7			
29 316-0050	Sodding, 250 mm deep, bluegrass sod, level ground, 750 SQM	SQM	1.0	25 Skilled Foreman 100 Common Laborers 100 Equip. Operator 100 Wheel Loader	600.00	690 00	645.00	0.613
29 316-0200	Sodding, 250 mm deep, bluegrass sod, level ground, 370 SQM		1:0	Wine Winess Loader	500.00	575.00		6716
	Sodding, 250 mm deep, bluegrass sod, level ground, 100 SQM				450.00	516.00	46444	C.: -8
	Sodding, 250 mm deep, bluegrass sod, sloped ground, 370 SQM		+		375.00	431.00	403.00	0.021
727 C 7 11	Sodding, 250 mm deep, bluegrass sod, sloped ground, 100 SQM		+		300.00	345.00	322.50	0.027

CSI		0.000	CREW			D.O.	AVRG.
CODE	ITEM DESCRIPTION	UNIT	STRUCTURE	D.O. MIN.	D.O. MAX.	AVRG	E.H.
029 500	TREES/PLANTS/GROUND COVER						
029 504	GROUND COVER:	11					
029 504-0600	Ground cover, stone chips, marble	KG	0.125 Labor Foreman 2.000 Common Laborer 2.000 Tools Set	9,000.00	10,350.00	9,675.00	0.003
029 504-0700	Ground gravel, hand cover pea gravel	CUM		16.00	18.00	17.00	1.000
029 516	MULCH:						
029 516-0100	Mulch aged barks, 75 mm deep, hand spread	SQM	1 Common Lator 1 Tool Set	65.00	75.00	70.00	0.123
029 516-020 0	Mulch hay, 25 mm deep, hand spread	П	T root set	300.00	345.00	322.50	0.027
029 516-0800	Mulch peat moss, 25 mm deep, hand spread	100		600.00	690.00	645.00	0.013
029 520	MOVING PLANTING:		<u> </u>				
029 520-0300	Planting, moving trees on site, 900 mm ball	EA	0.125 Labor Foreman 2.000 Common Laborer 2.000 Tools Set	2.00	2.00	2.00	8.000
029 520-0400	Planting, moving trees on site, 1500 mm ball		44	0.75	1,00	0.88	21.333
029 524	PLANTING SHRUBS:						
029 524-0100	Shrubs, broadleaf evergreen, planted in prepared beds	EA	0.125 Labor Foreman 2.000 Common Laborer 2.000 Tools Set	50.00	58.00	54.00	0.320
029 524-0200	Shrubs, azalea, 380 mm to 460 mm, container			50.00	58.00	54.00	0.320
029 524-0300	Shrubs, barberry, 230 mm to 300 mm, container			65.00	75.00	70.00	0.246
029 528	PLANTING SHRUBS & TREES :			-		100000	
029 528-0100	Shrubs and trees, evergreen, in prepared beds, balled and burlapped, 1.2 m to 1.5 m high	EA	0.125 Labor Foreman 1.000 Skilled Worker 2.000 Common Laborer 0.250 Truck Driver (light) 0.250 Flatbed Truck, 3 metric ton 1.000 Power Tool	16.00	18.00	17.00	0.625
029 528-0300	Shrubs and trees, evergreen, in prepared beds, balled and burlapped, 2.4 to 2.5 m high			10.00	12.00	11.00	1.000
029 528-0600	Shrubs and trees, evergreen, in prepared beds, balled and burlapped, upto 600mm high			45.00	52.00	48.50	0.222
029 528-0740	Shrubs and trees, evergreen, in prepared beds, balled and burlapped, pine black upto 900mm.			35.00	40.00	37.50	0.286
029 528-0741	Shrubs and trees, evergreen, in prepared beds, balled and burlapped, spruce, blue, 0.5 m to 0.6 m			45.00	52.00	48.50	0.222
029 536	PLANTING TREES:		-	-			
029 536-0100	Trees decidous, in preparation beds, balled & burlapped,ash 50 mm caliper	EA	0.125 Labor Foreman 1.000 Skilled Worker 2.000 Common Laborer 0.250 Truck Driver (light) 0.250 Flatbed Truck, 3 metric ton 1.000 Power Tool	6.00	7.00	6.50	1.667
029 536-0200	Trees deciduous, in preparation beds, balled & burlapped,beech, 1.5 m to 1.8 m high			25.00	29.00	27.00	0.400
029 536-0600	Trees deciduous, in preparation beds, balled & burlapped,dogwood 1.2 m to 1.8 m high			25.00	29.00	27.00	0.400
029 536-1100	Trees deciduous, in preparation beds, balled & burlapped, honeylocust, 3m to 3.6m, 38			7.00	8.00	7.50	1,429
29 536-1400	mm caliper Trees deciduous, in preparation beds, balled & burlapped, linden, 2.4 m to 3 m, 25 mm			10.00	12.00	11.00	1.000
029 536-1600	Trees deciduous, in preparation beds, balled & burlapped,maple, red, 2.4 m to 3 m, 38 mm caliper	EA	0.125 Labor Foreman 1.000 Skilled Worker 2.000 Common Laborer 0.250 Truck Driver (light) 0.250 Flatbed Truck, 3 metric ton 1.000 Power Tool	7.00	8.00	7.50	1.429
	Trees deciduous, in preparation beds, balled & burlapped, tulip, 1.5m to 2.4m						



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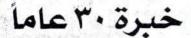
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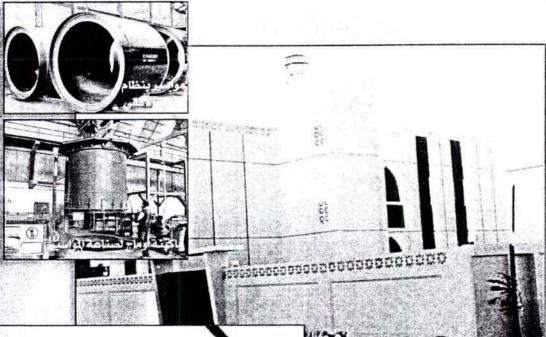
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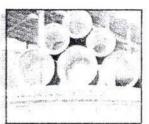


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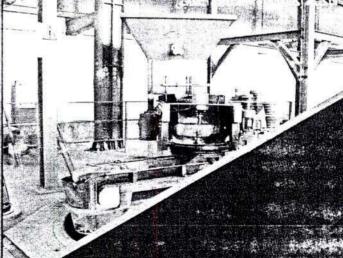












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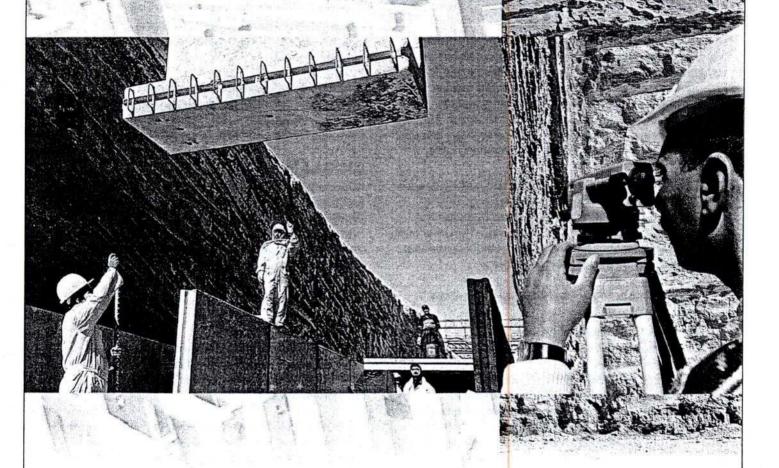
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Division 3

Concrete

Estimating Tips

General

Always obtain concrete prices from suppliers near the job site. Remember to add for waste, particularly for slabs and footings on grade.

031 Concrete Formwork

A primary cost for concrete construction is forming.

Most jobs today are constructed with prefabricated forms. The selection of the forms best suited for the job and the total square meter of forms required for efficient concrete forming and placing are key elements in estimating concrete construction. Enough forms must be available for erection to make efficient use of the concrete placing equipment and crew.

Concrete accessories for forming and placing depend upon the systems used. The productivity rate as shown in this book includes the form preparation, erecting, forms removal and cleaning. Concrete forms are usually estimated by computing the surface area of the form in contact with concrete.

Estimators shall focus on any special formwork requirements such as:

- Risers for stepped wall footings.
- Keyways, as grooves are usually formed in the top of footings.
- Design proper wall forms to withstand the horizontal pressure exerted by the flow of concrete.
- Curved walls require more studs and bracing.
 - Bulkheads shall be considered for all opening in formwork, estimator shall allow an average of 0.06 M³ form per square meter opening.
- Check for any setbacks for all wall foundations that extend above grade.
- Check for any continuous hunch in concrete wall forms.
- Using high early strength cement instead of ordinary portland cement will reduce the cost of forms in large jobs.
- Productivity rate for slab forms considers the use of adjustable sectional steel scaffolding units for shoring.

032 Concrete Reinforcement

has included all accessories, cutting, bending and an allowance for lapping, splicing and waste.

Estimator shall pay attention to steel bars supports with respect to rust prevention classification as being maximum, moderate or with no protection.

Estimator shall be aware that placing reinforcing steel in architectural concrete walls, having smaller sizes, horizontal, vertical short runs, and wired together in a costly operation.

033 Cast-in-Place Concrete

When estimating structural concrete, pay particular attention to requirements for concrete additives, curing methods and surface treatments. Special consideration for climate, hot or cold, must be included in your estimate. Be sure to include requirements for concrete placing equipment and concrete finishing.

034 Precast Concrete

The cost of hauling precast structural members is often an important factor. For this reason, it is important to get a quote from the nearest supplier.

Estimator shall consider additional forms for column depression at all column heads on the flat slabs.

Estimator shall be aware that form work for stairs running with two (2) flights between floors and with an intermediate landing costs about 30% more than a straight flight run.

Architectural concrete forms shall be priced based on the contractor know-how to detail them, including every piece of plywood, stud, wale, bolt, window boxes and lumbar for reveals.

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CSI	N 03 : CONCRETE			200			Marie Walls	THE REAL PROPERTY.	数据数据数
CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	HOURES	EQUIP.	D. O. MIN	D. O. MAX	D. O. AVRG.	AVRG. E.H.
TO STATE OF THE PARTY OF THE PA	CONCRETE FORMWORK								
030 100	STRUCT C.I.P. FORMWORK	美国的	Carrier St. N. A. of the St. St. St.		Carried Control			E CONTROL MAN	
031 110	ACCESSORIES, ANCHOR BOLTS Incl. nut and washer								
	Anchor bolt, including nut & washer, 16 mm Diameter, 305 mm Long (5/8", 12")	EA	1 Carpenter	8.00	0.00	60,000	69.000	64,500	0.00
	Anchor bolt,including nut & washer, 16 mm Diameter, 610 mm Long	+	T. Carpone	8.00	0.00	45.000	52.000	48.500	0.00
	DATA SANCTON CONTRACTOR AND	++	-	6.00	0.00	40.000	46.000	43.000	0.00
Albert III State Control	Anchor boit, including rut & washer, 20 mm Diameter, 610 mm Long	++		8.00	0.00	30.000	35.000	32.500	0.00
	Anchor bolt,including nut & washer, 22 mm Diameter, 610 mm Long	+		-	0.00	-	-	-	
2015. S. D. DOSPONS	Anchor bolt,including nut & washer, 24 mm Diameter, 305 mm Long (1*,12")	\vdash		8:00	1000	42.000	48.000	45.000	0.00
OSSESSES CONTRACTOR	Anchor bolt, including nut & washer, 24 mm Diameter, 914 mm Long	+	•	8.00	0.00	18.000	21.000	19,500	0.00
031 111	Anahor hall with how mid 8 wanther vine related MC 0 mm Discontra u 400 mm Loop to 200	F (3"		1	nerect the second		Sections	no viene	0.7000
031 111-0800	mm Long	EA	1 Carpenter	8.00	0.00	80,000	92.000	86 000	0.00
031 111-1270	Anchor boll with hex nut & washer, zinc plated, M12, 12 mm Diameter x 320 mm Long			8.00	0.00	68.000	78.000	73,000	0.00
031 111-1670	Anchor bolt with hex nut & washer.zinc plated.M16, 16 mm Diameter x 320 mm Long			8.00	0.00	62.000	71.000	66.500	0.00
		+		8.00	0.00	50.000	58.000	54.000	0.00
031 111-2070	Anchor bolt with hex nut & washer, zinc plated, M20, 20 mm Diameter x 400 mm Long	-	-	8.00	-				
031 111-2450	Anchor bolt with hex nut & washer,zinc plated,M24, 24 mm Diameter x 320 mm Long	7	ļ	8.00	0.00	58.000	67.000	62.500	0.00
031 112	ACCESSORIES, CHAMFER STRIPS:								
031 112-2000	Chamfer strip,Polyvinyl chloride,15 mm wide with leg	LM	1 Carpenier	8.00	0.00	125.000	144,000	134.500	0.00
31 112-2200	Chamfer strip,Polyvinyl chloride, 20 mm chamfer with leg			8.00	0.00	120.000	138.000	129.000	0.00
031 112-2400	Chamfer strip, Polyvinyl chloride, 25 mm radius with leg			8.00	0.00	115.000	132.000	123.500	0.00
031 112-2800	Chamfer strip.Polyvinyl chloride, 30 mm radius			8.00	0.00	110.000	127,000	118.500	0.00
031 112-5200	Chamfer strip,steel 20 mm wide			8.00	0.00	100.000	115.000	107,500	0.00
031 112-5400	Chamfer strip,steel 25 mm wide	1		8.00	0.00	96.000	110.000	103.000	0.00
031 114	ACCESSORIES COLUMN FORM:								
031 114-1300	Column clamps adjustable 760 mm x 760 mm	SET	1 Carpenter	8.00	0.00	15.000	17.000	16.000	0.00
031 114-3300	Column clamps adjustable 1.5 m x 1.5 m	***		8.00	0.00	5.000	6.000	5.500	0.00
031 116	ACCESSORIES, DOVETAIL ANCHOR SYSTEM:	-						1	
031 116-0500	Dovetall, Anchor slot, filled, 24 ga.	LM	1 Carpenter	8.00	0.00	92,000	106.000	99.000	0.00
Carrier Control	Dovetail, Anchor slot, Galvanized, 20 ga.	1		8.00	0.00	85.000	98.000	91.500	0.00
distance of the same of	Dovetail, Anchor slot, 454 gram copper, foam filled	+		8.00	0.00	80.000	92.000	86.000	0.00
on the Constitution	Dovetail, Anchor slot, 26 ga. stainless steel, foam filled	+	+	8.00	0,00	80.000	92.000	86.000	0.00
	Dovetail, Brick anchor, galv., 89 mm Long, 16 ga	100 PC	1 Bricklayer	8.00	0.00	7.000	8.000	7,500	0.00
POPPORTA ALBERTANCE	Dovetail, Anchor Cavity wall, galv., 127 mm Long, 12 ga	1		8.00	0.00	7.000	8.000	7.500	0.00
	Dovetail, Furring anchors, corr., galv., 38 mm Long, 12 ga.			8.00	0.00	7,000	8.000	7.500	0.00
BUT TO STREET	Dovetall, Stone anchors, 89 mm Long, galv., 6 mm x 25 mm wide			8.00	0.00	6.000	7.000	6.500	0.00
031 122	ACCESSORIES,INSERTS:		L •		3.70		7.000		0.00
		EA	1 Carpenter	8.00	0.00	50.000	58.000	54.000	0.00
the second second	Inserts,Continuous slotted, 914 mm Long 8 ga.	En	1 Carpenier	8.00	0.00	45.000	52.000	48.500	0.00
	Inserts,Continuous siotted, 1.5 m Long 8 ga.			8.00	0.00	45.000	52.000	40.500	0.00
	ACCESSORIES, SLEEVES AND CHASES:	1		1		75 000	00 000	00 500	0.00
	Sleeves & Chases, Plastic type, 1 use, 229 mm Long, 100 mm dia.(4*)	EA	1 Carpenter	8.00	0.00	75.000	86.000	80.500	0.00
	Sleeves & Chases, Plastic type, 1 use, 229 mm Long, 300 mm dia.(12")			8.00	0.00	50.000	58.000	54.000	0.00
	EXPANSION JOINT	_			1				
31 132-0010	Expansion Joint, Keyed cold joint, 24 ga., incl. stakes, 90 mm high	LM	1 Carpenter	8.00	0.00	50.000	58.000	54.000	0.00
Contraction of the Contraction	Expansion Joint, Keyed cold joint, 24 ga., incl. stakes, 190 mm high	1	1 Carpenter	8.00	0.00	45.000	52.000	48.500	0.00
31 132-0350	Expansion Joint, Poured asphalt, plain, 25 mm x 50 mm	Ш	1 Common Labor	8.00	0.00	110.000	127.000	118.500	0.00
31 132-0550	Expansion Joint, Neoprene, liquid, cold applied, 25 mm x 50 mm		1 Common Labor	8.00	0.00	110.000	127.000	118.500	0.00
31 132-0750	Expansion Joint, Polyurethane, 1 part, 13 mm x 25 mm		2 Common Labor	8.00	0.00	110.000	127.000	118.500	0.00
31 132-1150	Expansion Joint, Rubberized hot applied, fuel resistant, 25 mm x 50 mm			8 00	0.00	110.000	127.000	118.500	0.00
31 132-2000	Expansion Joint, Premolded, bituminous fiber, 13 mm x 150 mm		1 Carpenter	8.00	0.00	120 000	138.000	129.000	0.00
31 132-2250	Expansion Joint, Cork with resin binder, 13 mm x 150 mm			8.00	6.00	96.000	110.000	103.000	0.00
31 132-2550	Expansion Joint, Neoprene sponge, closed cell, 25 mm x 300 mm			8.00	0.00	96.000	110.000	103.000	0.00
31 132-2750	Expansion Joint Polyethylene toam,13 mm x 150 mm			8.00	0.00	96.000	110.000	103.000	0.00
31 132-3000	Expansion Joint, Polyethylene backer rod, 10 mm to 25 mm diameter			8.00	0.00	120.000	138,000	129.000	0.00
31 132-3100	Expansion Joint, Polyethylene backer rod, 25 mm dia. (1")			8.00	0.00	120.000	138,000	129.000	0.00
all all and the section in	Expansion Joint Polyurethane to am, regular, closed cell, 25 mm x 300 mm	1	1	6.00	0.00	75.000	86.000	80.500	0.00
	Expansion Joint, Rubber, gray sponge, 13 mm x 150 mm	LM	1 Carpenter	8.00	0.00	110.000	127.000	118.500	0.00
	FORMS IN PLACE, BEAMS AND GIRDERS:	- 100	A SOUTH OF THE PARTY OF THE PAR		1007/05			-049312	
31 138			0.125 Carpenter Foreman	T			-		
	Forms in place, Bearn and Girder, exterior spandrel, 305 mm wide, 4 use	CON- TACT AREA	4.000 Carpenters 2.000 Laborers 0.250 Equip. Operator 2.000 Power Tools 0.250 Truck Orane 35 Too	51.00	18.00	19.460	22.000	20.730	0.92

CSI	ITEM DESCRIPTION	1	T		CREW	CREW	CREW		D. O.	D. O.	AVRG.
CODE	ITEM DESCRIPTION		JNIT	STE	NUCTURE	HOURES	EQUIP.	D. O. MIN	MAX	AVRG.	E.H.
031 138-215	Forms in place, Interior beams, 305 mm wide, 5 use					51.00	18.00	22.990	26.000	24.495	0.78
NO. STATE OF THE STATE OF	0 Forms in place, Interior beams, 610mm wide, 1 use					51.00	18.00	20,900	24,000	22.450	0.86
031 138-315	0 Forms in place,Beam and Girder,encasing steel frame,hung, 5 use		1			51.00	18.00	30.080	35.000	32.540	0.59
031 138-365	0 Forms in place,Beam bottoms only, 510 mm wide, 5 use	1	1			51.00	18.00	27.740	32.000	29.870	0.64
031 138-400	0 Forms in place,Beam sides only,vertical, 914 mm high, 1 use					51.00	18.00	29.570	34,000	31.785	0.60
031 138-450	Forms in place, Sloped sides, 914 mm high, 1 use			Local		51.00	18.00	22.670	26.000	24.335	0.79
031 138-500	Forms in place, Upstanding beams, 914 mm high, 1 use				•	51.00	18 00	15.520	19.000	17.810	1,08
031 142	FORMS IN PLACE, COLUMNS:										
031 142-0500	Column form, Round fiberglass, 5 use/mo., 300 mm dia. 4.2 m high.		LM	0.125 Carpon 4.000 Carpon 2.000 Labore 0.250 Equip 2.000 Power 0.250 Truck (ters rs Operator Tools	51.00	18.00	73.000	84:000	78.500	0.24
031 142-0650	Column form, Round fiberglass, 5 use/mo.,rent, 610 mm dia. 4.2 m high.					51.00	18.00	64,900	74 000	69.000	0.28
031 142-0800	Column form,Round fiberglass, 5 use/mo., 760 mm dia. 4.2 m high					51.00	18.00	58.000	67.000	62,500	0.310
031 142-0850	Column form, Round fiberglass, 5 use/mo., 914 mm dia: 4.2 m high					51.00	18.00	54.700	63.000	58.850	0.329
031 142-1700	Column form, Round fiber tube, 1 use. 400 mm dia. 4.2 m high.					51.00	18.00	59.700	69.000	64.350	0.302
031 142-1800	Column form, Round fiber tube, 1 use, 610 mm dia, 4.2 m high	T				51,00	16.00	55.000	63,000	59.000	0.327
031 142-1900	Column form, Round fiber tube,1 use, 914 mm dia. 4.2 m high.	1			1	51,00	18.00	50 000	58.000	54.000	0.360
	Column form, Round fiber tube, 1 use, 1220 mm dia. 4.2 m high.	1				51.00	18.00	29.300	34.000	31.650	0.614
100000000000000000000000000000000000000	Column form,Round,steel, 5 use/mo.,regular duty, 400 mm dia., 6 m high					51.00	18 00	43.500	50.000	46.750	0.414
White District Section	Column form Round Steel, 5 use/mo, Heavy duty, 610 mm dia, 6 m high	1	1			51.00	18.00	30.300	35.000	32.650	0.594
Care and arrangement	Column form Round Steel, 5 use/mo., Heavy duty, 762 mm dia. 6 m high	1				51.00	18.00	25.800	30.000	27,900	0.698
	Column form Round Steel, 5 use/mo , Heavy duty, 814 mm dia, 7.6 m high.	1				51.00	18.00	22.600	26.000	24.300	0.796
	Column form Round Steel, 5 use/mo . Heavy duty, 1220 mm dia, 7.6 m high	+	1			51.00	18.00	18.200	21.000	19.600	0.989
	Column form,Round Steel, 4 use/mo.,Heavy duty,1525 mm dia 8 m high.			1.00 Carpente 4.00 Carpente 2.00 Laborers 0.50 Equip O 1.00 Power Tr 0.50 Truck Cr	perator sola	60.00	12.00	15.500	18.000	16.750	0.774
031 142-4000	Column form,Round Steel,Column capitals, 5 use/mo., 600 mm col, 1200 mm cap dia	1	EA			60.00	12.00	14.000	16.000	15.000	0.857
Control of Control of Control	Column form, Round Steel, Column capitals, 5 use/mo., 600 mm col, 1800 mm cap dia	1				60,00	12.00	12.250	14.000	13.125	0.960
031 142-5500	Column form, Plywood, 300 mm x 300 mm columns, 1 use	T	ACT	0.125 Carpent 4.000 Carpent 2.000 Laborer 0.250 Equip. (2.000 Power 1 0.250 Truck C	ers s Operator cols	51.00	18.00	20.360	23.000	21.680	0.884
031 142-5650	Column form, Plywood, 300 mm x 300 mm columns, 5 use			0.630 110011	1010 00 10	51.00	18.00	24.980	29 000	26.990	0.721
031 142-6000	Column form, Plywood, 400 mm x 400 mm columns, 1 use	Т				51.00	18.00	20.870	24.000	22.435	0.862
031 142-6650	Column form, Plywood, 600 mm x 600 mm columns, 5 use	\top				51.00	18.00	27.850	32.000	29.925	0.646
031 142-7000	Column form, Plywood, 900 mm x 900 mm columns, 1 use					51.00	18.00	23.040	26.000	24.520	0.781
	Column form, Plywood, 900 mm x 900 mm columns, 5 use	1				51.00	18.00	29.150	34.000	31,575	0.617
031 142-7600	Column form, Steel framed plywood, 5 use/month, 300 mm x 300 mm					51,00	18.00	33.510	39.000	36.255	0.537
Color of the state of	Column form, Steel framed plywood, 5 use/month, 400 mm x 400 mm					51:00	18.00	35.190	40.000	37.595	0.512
CANAN AND ASSAULT	Column form, Steel framed plywood, 5 use/month, 500 mm x 500 mm	T				51.00	18.00	36.070	41.000	38.535	0.499
	Column form, Steel framed plywood, 5 use/month, 600 mm x 600 mm			70		51.00	18.00	36.970	43.000	39.985	0.487
031 146	FORMS IN PLACE, CULVERT:	-									
031 146-0010	Form Culvert.1524 mm to 2438 mm rectangular, 1 use	C	ON- ACT REA	0 125 Carpent 4 000 Carpent 2 000 Laboren 0 250 Equip. C 2 000 Power T 0 250 Truck C	ers : perator cols	51.00	18.00	17.000	20.000	18.500	1.059
031 150	FURMS IN PLACE, ELEVATED SLABS: STEEL JACK SURRORTS					4			- 110		
031 150-1000	Forms in place, Flat plate to 4.6 m high. 1 use	s	ОМ	0 125 Carpenti 4 000 Carpenti 2 000 Laborers 0 250 Equip C 2 000 Power T 0 250 Truck O	erg perator pois	51.00	18 00	65.850	76.000	70.925	0.273
31 150-1150	Forms in place, Flat plate to 4.6 m high, 5 use					51.00	18.00	72.000	83.000	77.500	0.250
31 150-1600	Forms in place, Flat plate 5.2 m to 11 m high ceiling, 5 use					51.00	18.00	62,000	71.000	66.500	0.500
31 150-2150	Forms in place, Flat slab with drop panels, to 4.6 m high, 5 use					51.00	18.00	68.000	78.000	73.000	0.265
31 150-3500	Forms in place, Floor slab, with 508 mm metal pans, 1 use					51.00	18.00	52.330	60.000	56.165	0.344
31 150-3650	Forms in place, Floor slab, with 508 mm metal pans, 5 use/month					51.00	18.00	59.000	68.000	63.500	0.305
	Forms in place, Floor slab, with 762 mm metal pans, 5 use/month.					51.00	18.00	65.320	75.00x	70 167	0.275
	Forms in place Floor slab, with 483 mm metal domes, 1 use					51.00	18.00	51,200	59.000	65.100	1,15
31 150-4150	Forms in place Floor slab, with 483 mm metal domes, 2 use/month.					51.00	18.00	59.267	68.000	ורף בים	r anx
	Forms in place, Floor slab with 762 mm fiberglass domes, 1 use			- W.S.W.		51,00	18.00	51.200	59.000	55,100	0.352
31 150-4500						4					
and a resolution of the con-	Forms in place, Floor slab, with 762 mm fiberglass domes, 5 use	Н	\exists			51.00	18.00	64.270	74.000	69 135	0.280

CEI	N 03: CONCRETE		CREW	CREW	CREW		D 0	0.0	AVMC
CSI CODE	ITEM DESCRIPTION	UNIT	STRUCTURE	HOURES	EQUIP.	D. O. MIN	D. O. MAX	D. O. AVRG.	AVRG. E.H.
		SQM	0.125 Carpenter Foreman. 4.000 Carpenters						
031 150-6500	Forms in place. Curb forms, wood, 150 mm to 300 mm H, on elevated slabs, 1 use	CON- TACT AREA	2.000 Laborers 0.125 Equip. Operator 1.000 Power Tools	50.00	9.00	23.400	27.000	25.200	0.38
001 150 0050		_	0.125 Truck Crane 35 Ton	50.00	9.00	01.000	04.000	90 540	0.40
	Forms in place, Perimeter deck and rall for elevated slabs, Curved	H		50.00	9.00	21.080	24.000	22.540	0.42
Vesto Vestoria	Forms in place, Void forms, round fiber, 300 mm diameter, void (12")	LM	L+	50.00	9.00	100.000	115,000	107.500	0.09
031 154	FORMS IN PLACE, EQUIPMENT FOUNDATIONS: Forms in place, equipment foundations 1 use	SOM CON- TACT AREA	0.125 Carpenter Foremasi 4.000 Carpenters 2.000 Laborers 0.125 Equip Operator 1.000 Power Tools	50.00	9.00	11.880	14.000	12.940	0.75
	Control of the Contro	100	0.125 Truck Crane 35 Ton	-	1272217		-	277922	10.00
The state of the s	Forms in place, equipment foundations 5 use	ST.		50,00	9.00	13.800	15.000	14.900	0.652
031 158	FORMS IN PLACE, FOOTINGS:		0.125 Carpenter Forestan	50.00	9.00				
031 158-0010	Forms in place, Footings Continuous wall, 1 use	SOM CON- TACT AREA	4.000 Carpenters 2.000 Laborers 0.125 Equip. Operator 1.000 Power Tools 0.125 Truck Crane 35 Ton	50.00	9.00	34.150	39.000	36.575	0.264
031 158-0150	Forms in place, Footings Continuous wall, 5 use	1*		50.00	9.00	40.420	46.000	43.210	0.223
031 158-1000	integral starter wall, to 100 mm high, 1 use	LM		50.00	9.00	155.000	178.000	166,500	0.058
031 158-1550	Keyway, 5 use, tapered wood, 50 mm x 150 mm		1 Carpenter	8,00	0.00	115.000	132.000	123.500	0.000
031 158-2050	Keyway, 5 use, tapered plastic, 50 mm x 100 mm			8.00	0.00	115.000	132.000	123.500	0.000
031 158-3000	Forms in place,pile cap, square or rectangular, 1 use		0.125 Carpenter Foreman 4.000 Carpenters 2.000 Laborers 0.125 Equip. Operator 1.000 Power Tools 0.125 Truck Crane 35 Ton	50.00	9.00	28.200	32.000	30.100	0.319
031 158-3150	Forms in place, pile cap, square or rectangular, 5 use			50,00	9.00	33.600	39.000	36,300	0.268
031 158-4000	Forms in place pile cap Triangular or hexagonal, 1 use			50.00	9.00	27.800	32.000	29.900	0.324
031 158-5000	Forms in place, spread footings, 1 use			50.00	9.00	30.330	35.000	32.665	0.297
031 158-5150	Forms in place, spread footings, 5 use	1		50.00	9.00	36.160	42.000	39.080	0.249
031 158-6000	Supports for dowels, plinths or templates, 600 mm x 600 mm footing	EA		50.00	9.00	27.000	31.000	29.000	0.333
031 158-6150	Supports for dowels, plinths or templates, 3650 mm x 3650 mm footing	() 2		50.00	9.00	18.000	21.000	19.500	0.500
031 162	FORMS IN PLACE, GRADE BEAM:								
031 162-0010	Forms, Grade Beam 1 use	SOM CON- TACT AREA	0.125 Carpenter Forerran 4.000 Carpenters 2.000 Laborers 6.125 Equip Operator 1.000 Power Tools 6.125 Truck Crane 35 Ton	50.00	9.00	43,000	49.000	46.000	0.209
031 162-0150	Forms,Grade Beam 5 use			50.00	9.00	50.000	58.000	54.000	0.180
031 166	FORMS IN PLACE, MAT FOUNDATION:								
031 166-0010	Forms in place,mat foundation 1 use	CON-	0.125 Carpenter Foreman 4.000 Carpenters 2.000 Laborers 0.125 Equip Operator 1.000 Power Tools 0.125 Truck Crane 35 Ton	50.00	9.00	23.600	27.000	25.300	0.381
031 166-0120	Forms in place,mat foundation 5 use	*	*	50.00	9.00	28.300	33.000	30.650	0.318
031 170	FORMS IN PLACE, SLAB ON GRADE:	10	///						
031 170-1000	Bulkhead forms with keywey, 1 use , 2 piece	LM	0.125 Carpenter Foreman 4.000 Carpenters 2.000 Laborers 0.125 Equip. Operator 1.000 Power Tools 0.125 Truck Crane 35 Ton	50.00	9.00	155.000	178.000	166,500	0.058
031 170-1400	Bulkhead forms w/keyway, 1 piece expanded metal, left in place	-		50,00	9.00	475.000	546.000	510.500	0.019
031 170-2000	Curb forms, wood,150 mm to 450 mm high on grade, 1 use	SOM CON- TACT AREA		50.00	9.00	22.700	26.000	24.350	0.396
031 170-2150	Curb forms, wood,150 mm to 450 mm high,on grade, 5 use	AREA		50.00	9.00	26.300	30.000	28.150	0.342
	Edge forms for stab blockouts, 1 use to 600 mm high	LM		50.00	9.00	62.000	71.000	66.500	0.145
	Trench forms in floor, 1 use	SQM CON- TACT AREA		50.00	9.00	17.500	20.000	18.750	0.514
031 170-6150	Trench forms in floor, 5 use	BhE/h	of the Paris of	50.00	9.00	19.200	22.000	20.600	0.469
MINESON SWITT	FORMS IN PLACE, STAIRS:		· · · · · · · · · · · · · · · · · · ·					-	
	Forms in place, Stairs (Stant length x width), 1 use	SQM	0.125 Carpenter Foreman 4.000 Carpenters 2.000 Laborers 0.250 Equip. Operator 2.000 Power Tools 0.250 Truck Crene 35 Ton	51.00	18.00	6.700	8.000	7.350	2.687
31 174-0150	Forms in place Stairs (Slant length x width), 5 use	1.	0.250 Flock Grane 35 For	51.00	18.00	9.000	10.000	9.500	2.000
T-1 (5.00) T-1, T-2	A CONTRACT CONTRACT OF STATE O			07.050	115771	4737000	0.000000	-//	

CSI				CREW	CREW	CREW		D. O.	D. O.	AVRG.
CODE	ITEM DESCRIPTION	UNI	T	STRUCTURE	HOURES	EQUIP.	D. O. MIN	MAX.	AVRG.	E.H.
				125 Carpenter Foreman 000 Carpenters						
031 182-0100	Box out for openings up to 1 square meter in 400 mm wall thick	EA	0	:000 Laborecs :250 Equip: Operator	51.00	18 00	12.000	14.000	13,000	1.50
				:000 Power Tools I 250 Truck Crane 35 Ton						
031 182-0600	Bulkhead forms w/keyway, 1 piece expanded metal, left in place	LM	1	Carpenter	8.00	0.00	100.000	115.000	107.500	0.00
		SQA		125 Carpenter Foreman 000 Carpenters						
031 182-2000	Job built plyform wall forms to 2400 mm high, 1 use	CON	. 2	200 Laborers 250 Equip Operator	51.00	18 00	30 450	35.000	32.725	0.59
	Resident described and the control of the control o	ARE	A 2	000 Power Tools			Neghtonio II	No amondonia	52000000	
031 182-2150	Job built plyform wall forms, to 2400 mm high, 5 use	\rightarrow τ	0.	250 Truck Grane 35 Ton	51.00	18.00	38.200	44.000	41.100	0.47
Santa mark and an arrange) Job built plyform wall forms over 2400 mm to 4800 mm high, 5 use	++	+		51.00	18.00	31 100	36.000	33.550	0.47
	O Job built plyform wall forms over 4800 mm high, 5 use		+		51,00	18 00	25,900	30.000	27.950	0.69
	Radial wall forms, smooth curved, 1 use		+		51,00	16 00	22.390	26.000	24.195	0.80
	Radial wall forms smooth curved. 5 use	-++	+		51.00	18.00	27.950	32.000	29.975	0.64
The second second	Radial wall forms, curved, with 600 mm chords, 5 use	-+-	+		51.00	18.00	33.540	39.000	36.270	0.53
OR RESIDENCE	Retaining wall forms, battered, to 2400 mm high, 1 use	\rightarrow	+		51.00	18.00	24.650	28.000	26.325	0.73
	Retaining wall forms, battered, to 2400 mm high, 1 use		+		51,00	18.00	31.000	36.000	33.500	0.73
0200 10 10 500 500 500	Retaining wall forms, battered, over 2400 mm to 4800 mm high, 5 use	\rightarrow	+		51.00	18.00	22.800	26.000	24.400	0.78
2001/1	Liners for forms Ribbed look, 13 mm & 19 mm deep, 5 use		-	▼ Carpenter	8.00	0.00	68.900	79.000	73.950	0.00
	Liners for forms Rustic brick pattern, 5 use:	-++	+	Carpenaer	8.00	D.00		- 100000	2000000	0.035
THE RESERVE OF THE PARTY OF THE	1 St.		+		8.00	0.00	66.800	77,000	71.900	0.00
031 102-0000	Liners for forms striated,random,10 mm x 10 mm deep, 5 use		0	125 Carpenter Foreman	8.00	0.00	00.900	79,000	73.950	0.00
031 182-7800	Wall form, Modular prefabricated plywood, to 2400 mm high, 1 use/month		2 0 2	000 Carpenters 000 Laborers 250 Equip Operator 000 Power Tools	51.00	18 00	62.300	72.000	67.150	0.28
031 182-7860	Wall form, Modular prefabricated plywood, to 2400 mm high, 5 use/month	-11	10.	250 Truck Crane 35 Ton	51.00	18.00	66.700	77.000	71.850	0.27
	Wall form,Modular prefabricated plywood, to 4800 mm high, 5 use/month		2	125 Carpenter Foreman 000 Carpenters 000 Laborers 250 Equip Operator 000 Power Tools	51.00	18.00	46.700	54.000	50.350	0.38
				250 Truck Crane 35 Ten						29111.0
031 182-8660	Form, Pilasters, 5 use		_		51.00	18.00	30.350	35.000	32.675	0.59
	Wall form, Steel framed plywood, to 2400 mm high, 5 use/month				51 00	18,00	51.000	59 000	55.000	0.35
	Wall form. Steel framed plywood, over 2400 mm to 4800 mm high, 5 use/month		4		51 00	16.00	50,800	58.000	54.400	0.35
SEX CONSTRUCT	Wall form Steel framed plywood, over 4800 mm to 6100 mm high, 5 use/month				51.00	18.00	45.700	53.000	49.350	0.39
031 186	GAS STATION FORMS:	2000		2533472500	110000	201200	20000	- NY 254	1340440	200
031 186-0010	Forms, Curb fascia, with template 12 ga.steel.left in place, 230 mm high	LM	-	Carpenter 125 Carpenter Foreman	9.00	0.00	12.000	14.000	13.000	0.00
031 186-2550	Island forms, 6100mm long, 230 mm high, 1500 mm wide	EA	4.0 2.0 0	000 Carpenters 000 Laborers 125 Equip. Operator 000 Power Tools 125 Truck Crane 35 Ton	50.00	9.00	6.000	7.000	6.500	1.50
031 190	SCAFFOLDING See division 015-254			Table of the second second	-					
031 196	SLIPFORMS									
031 192-1000	Sliptorms Buildings, Average	SOM CON- TACT AREA	4.0 2.0 4.0.2	00 Skilled Foreman 00 Skilled workers 00 Laborers 28 Equip. Operator 25 Truck Crane - Hauling 50 Hyd. Jack with Rods	58.00	6.00	78.000	90 000	84.000	0.07
031 198	WATERSTOP:		Terro	7						
031 198-0010	Waterstop, Polyvinyl chloride, ribbed 5 mm thk. 100 mm wide	LM	10	Carpenter	8.00	0.00	38,000	44.000	41.000	0.00
Secretary and the second	Waterstop, Ribbed, PVC, with center bulb, 5 mm thick, 230 mm wide				8,00	0.00	32.000	37.000	34,500	0.00
031 198-0850	Waterstop, Dumbbell type, PVC, 150 mm wide, 10 mm thick				8.00	0.00	33 000	38.000	35.500	0.00
031 198-1250	Waterstop,Split PVC, 10mm thick, 150 mm wide				8.00	0.00	33.000	38.000	35.500	0.00
031 198-2050	Waterstop, Rubber, flat dumbbell, 10 mm thick, 230 mm wide		T		8.00	0.00	32.000	37.000	34.500	0.000
031 198-5500	Waterstop fittings, Rubber, flat, dumbbell or center bulb, 10 mm this.				8.00	0,00	25.000	29.000	27,000	0.000
031 198-6500	flat cross or tee, 150 - 230 mm wid- Waterstop fittings, Rubber, flat, dumbu-el or center bufb, 10 mm thic	+	+		8.00	0,00	30.000	35.000	32.500	0.000
	flat Ell 150 - 230 mm wide Waterstop fittings, Rubber, flat, dumbbell or center bulb, 10 mm thk.	-	+		-		-			=11 =2011
031 198-7000	Vertical Tee 150 - 230 mm wide				8.00	0.00	18.000	21.000	19.500	0.000
031 198-7500	Waterstop fittings, Rubber, flat, dumbbell or center bulb, 10 mm thk. Vertical Ell 150 - 230 mm wide	1 1		1	8.00	0.00	27.000	31.000	29.000	0.000
032	CONCRETE REINFORCEMENT		Ż	THE BASSACK	W. Control					
032 100	REINFORCING STEEL:			And the second second						
032 107	REINFORCING IN PLACE A615, GRADE 60:									
032 107-0100	Grade 60, Reinforcement, Beams & Girders, 10 mm to 25 mm	MET TON	4.0 2.0 0.2 1.0	25 Labor Foreman 00 Steel Fudures 00 Common Laborers 25 Equip Operator 00 Power Tool 125 Crane	52.00	10.00	1.10	1.500	1 65	., 5 4
				125 Bed Truck						
Annual Lines										

CSI	N 03: CONCRETE			CREW	CREW	CREW		D 0		AVOC
CODE	ITEM DESCRIPTION	UNI	Т	STRUCTURE	HOURES	EQUIP.	D. O. MIN	D. O. MAX	D. O. AVRG.	AVRG. E.H.
032 107-020	0 Grade 60,Reinforcement Columns, 10 mm to 25 mm	H			40.00	12.00	1.000	1.000	1.000	12 00
032 107-0250	0 Grade 60, Reinforcement, Columns, 25 mm to 40 mm				40.00	12,00	1.200	1.500	1.350	10.000
032 107-0300	Grade 60, Reinforcement, Spirals, 10 mm diam, hot rolled, to 350 mm dia.)				40.00	12.00	1.200	1.500	1.350	10.000
032 107-0400	Grade 60,Reinforcement,Elevated slabs, 10 mm to 25 mm				40.00	12.00	1.800	2.000	1.900	6.667
032 107-0500	Grade 60,Reinforcement,Footings 10 mm to 25 mm				40.00	12.00	1.400	2.000	1.700	8.57
032 107-0550	Grade 60,Reinforcement,Footings 25 mm to 40 mm				40.00	12.00	1.800	2.000	1.900	6.667
032 107-0600	Grade 60, Reinforcement, Slab on grade 10 mm to 25 mm				40.00	12.00	1.600	2.000	1.800	7,500
032 107-0700	Grade 60, Reinforcement, Walls, 10 mm to 25 mm				40.00	12.00	1.800	2.000	1,900	6,667
032 107-0750	Grade 60, Reinforcement, Walls, 25 mm to 40 mm	П			40.00	12.00	2.200	3.000	2.600	5.455
032 107-1000	Grade 60, Reinforcement, Typical in place, 10 metric ton lots, average			No. 20 10 10 10 10 10 10 10 10 10 10 10 10 10	40.00	12.00	1.100	1.500	1.300	10.909
032 107-1100	Grade 60. Reinforcement, Typical in place, over 45 metric ton lots, average		T		40.00	12.00	1.400	2.000	1,700	8.571
032 107-2000	Unloading.handling & sorting.steel reinforcement add to above	MET	4 20 0 0	0.25 Skilled Foreman 4.00 Steel Fotures(Rent.) 2.00 Laborets 5.60 Equip. Oper(Crane) 5.60 Equip. Oper Oter 5.50 Hyd. Crane, 23 ton 0.50 Bed Truck	58.00	8.00	80.000	92,000	86.000	0.100
032 107-2400	Reinforcement steel, Dowels, 600 mm long, deformed, 10 mm bar	EA	2	0.125 Steel Forman 2.000 Steel Fixtures 1.000 Helper	25,00	0.00	400.000	460.000	430.000	0.000
032 107-2420	Reinforcement steel, Dowels, 600 mm long, deformed, 16 mm bar		T		25.00	0.00	300.000	345.000	322.500	0.000
032 107-2430	Reinforcement steel, Dowels, 600 mm long, deformed, 20 mm bar				25.00	0.00	270.000	311.000	290.500	0.000
032 107-2450	Reinforcement steel Dowels, heavier and longer than 20 mm	Ка			25.00	0.00	280.000	322.000	301.000	0.000
032 107-2500	Reinforcement steel, Smooth dowels, 300 mm long, 10 mm dia. (3/8")	EA			25.00	0.00	100.000	115.000	107.500	0.000
032 107-2520	Reinforcement steel, Smooth dowels, 300 mm long, 16 mm dia. (5/8")				25.00	0.00	85.000	98.000	91.500	0.000
032 107-2700	Reinforcement steel, Dowel caps, 125 mm long, 20 mm dia (3/4")				25.00	0.00	78.000	90.000	84.000	0.000
032 107-2720	Reinforcement steel, Dowel caps, 125 mm long, 32 mm dia. (1 1/4")	1		2.	25.00	0.00	700.000	805.000	752.500	0.000
032 109	SPLICING REINFORCING BARS incl. holding bars in place while splicing:	4	78.	A)						
032 109-0130	Butt weld column bar splice including holding bars in place, 35 mm bars	EA	4 2	.00 Skilled Foremen .00 Steel Fixtures(Reint.) .00 Laborers .00 Power Tools	56.00	16.00	70.000	81.000	75.500	0.229
	Column splice clamps; sleeve∧, or end bearing 30 mm or 35 mm steel bars		T		56.00	16.00	120.000	138.000	129.000	0.133
032 109-0800	Mechanical but splice, sleeve type with filler metal compression				56.00	16.00	55.000	63.000	59.000	0.291
032 109-1700	only all grades, columns only 35 mm steel bars Splice steel bar, including mechanical threading, straight steel bars, 35 mm		+		56.00	16.00	60.000	69.000	64,500	0.267
Caraca y waxaa aa aa aa	Splice steel bar, including mechanical threading, straight steel bars, 40 mm	EA	2	DC Skilled Foreman .00 Steel Fodures(Reinf.) .00 Laborers .00 Power Tools	56.00	16.00	45.000	52.000	48.500	0.356
032 109-2500	Splice bent steel bar, including mechanical threading, bars, 40 mm	122	1	b rower roots	56.00	16.00	36.000	41,000	38.500	0.444
032 200	WELDED WIRE FABRIC:		-1			- Service	70000000	412000000	AND COURSE	MR1-12713
032 207	WELDED WIRE FABRIC:									
032 207-0100	Welded Wire Fabric Sheets,100 mm x100 mmx (10x10) mm,12.34 Kg/m2	SOM	4.	.125 Steel Forman .00 Steel Fatures .00 Helper	49.00	0.00	630.000	725.000	677.500	0.000
032 207-0150	Welded Wire Fabric Sheets, 100 mm x 200 mm x (12x8) mm, 10.90 Kg/m2		T		52.00	0.00	585.000	673.000	629.000	0.000
032 207-0200	Welded Wire Fabric Sheets, 100 mm x 200 mm x (10x8) mm, 8.14 Kg/m2		T		52.00	0.00	560.000	644.000	602.000	0.000
032 207-0300	Welded Wire Fabric Sheets, 200 mm x 200 mm x (10x10) mm, 6.6 kg/m2		T		\$2.00	0.00	535.000	615.000	575.000	0.000
022 207-0400	Welded Wire Fabric Sheets, 100 mm x 100 mm x (7x7) mm, 6.94 Kg/m2		T		52.00	0.00	520.000	598.000	559.000	0.000
002 207-0400	Well-JW- February	7-7	T		52.00	0.00	500.000	575.000	537.500	0.000
Restaurance and the	Welded Wire Fabric Sheets, 150 mm x 150 mm x (8x8) mm, 5.36 Kg/m2	100					1000000	569.000	532.000	0.000
032 207-0420	Welded Wire Fabric Sheets, 150 mm x 150 mm x (8x8) mm, 5.36 Kg/m2 Welded Wire Fabric Sheets, 100 mm x 300 mm x (8x8) mm, 5.30 Kg/m2		†		52.00	0.00	495.000	000.000		0.000
032 207-0420 032 207-0420			†		52.00 52.00	0.00	495.000 470.000	541.000	505.500	0.000
032 207-0420 032 207-0420 032 207-0440	Welded Wire Fabric Sheets, 100 mm x 300 mm x (8x8) mm, 5.30 Kg/m2		1		100000	1,100,010	242700020	15000000	505.500 484.000	0.000
032 207-0420 032 207-0420 032 207-0440 032 207-0500	Welded Wire Fabric Sheets, 100 mm x 300 mm x (8x8) mm. 5.30 Kg/m2 Welded Wire Fabric Sheets, 100 mm x 400 mm x (8x5) mm, 4.34 Kg/m2				52.00	0.00	470.000	541.000		-
032 207-0420 032 207-0420 032 207-0440 032 207-0500 032 207-0600	Welded Wire Fabric Sheets, 100 mm x 300 mm x (8x8) mm, 5.30 Kg/m2 Welded Wire Fabric Sheets, 100 mm x 400 mm x (8x5) mm, 4.34 Kg/m2 Welded Wire Fabric Sheets, 200 mm x 200 mmx (8x8) mm, 3.95 Kg/m2				52.00 52.00	0.00	470.000 450.000	541.000 518.000	484.000	0.000
032 207-0420 032 207-0420 032 207-0440 032 207-0500 032 207-0600 032 2070-650	Welded Wire Fabric Sheets,100 mm x 300 mm x (8x8) mm, 5.30 Kg/m2 Welded Wire Fabric Sheets,100 mm x 400 mm x (8x5) mm, 4.34 Kg/m2 Welded Wire Fabric Sheets, 200 mm x 200 mmx (8x8) mm, 3.95 Kg/m2 Welded Wire Fabric Sheets,100 mm x 400 mm x (6x5) mm, 2.61 Kg/m2				52.00 52.00 52.00	6.00 6.00 6.00	470.000 450.000 425.000	541.000 518.000 489.000	484.000 457.000	0.000
032 207-0420 032 207-0420 032 207-0440 032 207-0500 032 207-0600 032 207-0600	Weided Wire Fabric Sheets, 100 mm x 300 mm x (8x8) mm, 5.30 Kg/m2 Weided Wire Fabric Sheets, 100 mm x 400 mm x (8x5) mm, 4.34 Kg/m2 Weided Wire Fabric Sheets, 200 mm x 200 mmx (8x8) mm, 3.95 Kg/m2 Weided Wire Fabric Sheets, 100 mm x 400 mm x (6x5) mm, 2.61 Kg/m2 Weided Wire Fabric Sheets, 100 mm x 400 mm x (4x4) mm, 1.98 Kg/m2				52.00 52.00 52.00 52.00	6.00 6.00 6.00	470.000 450.000 425.000 420.000	541.000 518.000 489.000 483.000	484.000 457.000 451.500	0.000 0.000 0.000
032 207-0420 032 207-0420 032 207-0440 032 207-0500 032 207-0600 032 2070-650 032 207-0700	Welded Wire Fabric Sheets, 100 mm x 300 mm x (8x8) mm, 5.30 Kg/m2 Welded Wire Fabric Sheets, 100 mm x 400 mm x (8x5) mm, 4.34 Kg/m2 Welded Wire Fabric Sheets, 200 mm x 200 mmx (8x5) mm, 3.95 Kg/m2 Welded Wire Fabric Sheets, 100 mm x 400 mm x (6x5) mm, 2.61 Kg/m2 Welded Wire Fabric Sheets, 100 mm x 400 mm x (4x4) mm, 1.98 Kg/m2 Welded Wire Fabric Sheets, 200 mm x 200 mm x (5x5) mm, 1.54 Kg/m2				52.00 52.00 52.00 52.00 52.00	0.00 6.00 0.00 0.00	470.000 450.000 425.000 420.000 410.000	541.000 518.000 489.000 483.000 472.000	484.000 457.000 451.500 441.000	0.000 0.000 0.000 0.000
032 207-0420 032 207-0420 032 207-040 032 207-0500 032 207-0600 032 207-0600 032 207-0600 032 207-0800 032 207-0800 032 300	Welded Wire Fabric Sheets, 100 mm x 300 mm x (8x8) mm, 5:30 Kg/m2 Welded Wire Fabric Sheets, 100 mm x 400 mm x (8x5) mm, 4:34 Kg/m2 Welded Wire Fabric Sheets, 200 mm x 200 mmx (8x8) mm, 3:95 Kg/m2 Welded Wire Fabric Sheets, 100 mm x 400 mm x (6x5) mm, 2:61 Kg/m2 Welded Wire Fabric Sheets, 100 mm x 400 mm x (4x4) mm, 1:98 Kg/m2 Welded Wire Fabric Sheets, 200 mm x 200 mm x (5x5) mm, 1:54 Kg/m2 Welded Wire Fabric Sheets, 150 mm x 150 mm x (4x4) mm, 1:35 Kg/m2	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3.	\$1.2.4K	52.00 52.00 52.00 52.00 52.00 52.00	0.00 0.00 0.00 0.00 0.00	470.000 450.000 425.000 420.000 410.000	541.000 518.000 489.000 483.000 472.000	484.000 457.000 451.500 441.000	0.000 0.000 0.000 0.000
032 207-0420 032 207-0440 032 207-0440 032 207-0500 032 207-0500 032 2070-650 032 2070-650 032 2070-0800 032 2070-0800 032 300 032 307	Weided Wire Fabric Sheets, 100 mm x 300 mm x (8x8) mm, 5.30 Kg/m2 Weided Wire Fabric Sheets, 100 mm x 400 mm x (8x5) mm, 4.34 Kg/m2 Weided Wire Fabric Sheets, 200 mm x 200 mmx (8x8) mm, 3.95 Kg/m2 Weided Wire Fabric Sheets, 100 mm x 400 mm x (6x5) mm, 2.61 Kg/m2 Weided Wire Fabric Sheets, 100 mm x 400 mm x (4x4) mm, 1.98 Kg/m2 Weided Wire Fabric Sheets, 200 mm x 200 mm x (5x5) mm, 1.54 Kg/m2 Weided Wire Fabric Sheets, 150 mm x 150 mm x (4x4) mm, 1.35 Kg/m2 STRESSING TENDONS:	ψ's kg	1.0 4.0 1.0 2.0 3.0	00 Skilled Foreman 00 Steel Fistures (reinf.) 00 Equip. Oper. (right) 00 Laborers 00 Stressing Equipment 50 Grouling Educarent	52.00 52.00 52.00 52.00 52.00	0.00 0.00 0.00 0.00 0.00	470.000 450.000 425.000 420.000 410.000	541.000 518.000 489.000 483.000 472.000	484.000 457.000 451.500 441.000	0.000 0.000 0.000 0.000
032 207-0420 032 207-0440 032 207-0500 032 207-0600 032 207-0600 032 207-0600 032 207-0600 032 207-0600 032 207-0600 032 207-0800 032 207-0800 032 307	Weided Wire Fabric Sheets, 100 mm x 300 mm x (8x8) mm, 5:30 Kg/m2 Weided Wire Fabric Sheets, 100 mm x 400 mm x (8x5) mm, 4:34 Kg/m2 Weided Wire Fabric Sheets, 200 mm x 200 mmx (8x8) mm, 3:95 Kg/m2 Weided Wire Fabric Sheets, 100 mm x 400 mm x (6x5) mm, 2:61 Kg/m2 Weided Wire Fabric Sheets, 100 mm x 400 mm x (4x4) mm, 1:98 Kg/m2 Weided Wire Fabric Sheets, 200 mm x 200 mm x (5x5) mm, 1:54 Kg/m2 Weided Wire Fabric Sheets, 150 mm x 150 mm x (4x4) mm, 1:35 Kg/m2 STRESSING TENDONS: PRESTRESSING STEEL Post-tensioned in field:	3.5	1.0 4.0 1.0 2.0 3.0	00 Skilled Foreman 00 Steel Fixtures (reinf.) 00 Equip Oper (light) 00 Laborers	52,00 52,00 52,00 52,00 62,00 52,00	0.00 0.00 0.00 0.00 0.00	470.000 450.000 425.000 420.000 410.000 400.000	541.000 518.000 489.000 483.000 472.000 460.000	484.000 457.000 451.500 441.000 430.000	0.000 0.000 0.000 0.000 0.000
032 207-0420 032 207-0440 032 207-0440 032 207-0600 032 207-0600 032 207-0600 032 207-0700 032 207-0800 032 207-0800 032 207-0800 032 207-0800 032 207-0800 032 207-0800 032 207-0800	Welded Wire Fabric Sheets, 100 mm x 400 mm x (8x8) mm, 5.30 Kg/m2 Welded Wire Fabric Sheets, 200 mm x 400 mm x (8x5) mm, 4.34 Kg/m2 Welded Wire Fabric Sheets, 200 mm x 200 mmx (8x8) mm, 3.95 Kg/m2 Welded Wire Fabric Sheets, 100 mm x 400 mm x (6x5) mm, 2.61 Kg/m2 Welded Wire Fabric Sheets, 100 mm x 400 mm x (4x4) mm, 1.98 Kg/m2 Welded Wire Fabric Sheets, 200 mm x 200 mm x (5x5) mm, 1.54 Kg/m2 Welded Wire Fabric Sheets, 150 mm x 150 mm x (4x4) mm, 1.35 Kg/m2 STRESSING TENDONS: PRESTRESSING STEEL Post-tensioned in field: Stressing Tendon, Post-tensioned in field, grouted strand, 15 m span, 50 metric ton Stressing Tendon, Post-tensioned in field, grouted strand, 15 m span, 150 metric ton	3.5	1.0 4.0 1.0 2.0 3.0	00 Skilled Foreman 00 Steel Fixtures (reinf.) 00 Equip. Oper (light) 00 Laborers 00 Stressing Equipment	52.00 52.00 52.00 52.00 62.00 52.00 64.00	0.00 0.00 0.00 0.00 0.00 0.00	470.000 450.000 425.000 420.000 410.000 400.000 360.000	541.000 518.000 489.000 483.000 472.000 460.000 414.000	484,000 457,000 451,500 441,000 430,000 387,000	0.000 0.000 0.000 0.000 0.000 0.000
032 207-0420 032 207-0420 032 207-0440 032 207-0500 032 207-0600 032 207-0600 032 207-0700 032 207-0800 032 207-0800 032 307 032 307-0100 032 307-0150	Welded Wire Fabric Sheets, 100 mm x 400 mm x (8x8) mm, 5:30 Kg/m2 Welded Wire Fabric Sheets, 100 mm x 400 mm x (8x5) mm, 4:34 Kg/m2 Welded Wire Fabric Sheets, 200 mm x 200 mmx (8x8) mm, 3:95 Kg/m2 Welded Wire Fabric Sheets, 100 mm x 400 mm x (6x5) mm, 2:61 Kg/m2 Welded Wire Fabric Sheets, 100 mm x 400 mm x (4x4) mm, 1:98 Kg/m2 Welded Wire Fabric Sheets, 200 mm x 200 mm x (5x5) mm, 1:54 Kg/m2 Welded Wire Fabric Sheets, 150 mm x150 mm x (4x4) mm, 1:35 Kg/m2 STRESSING TENDONS: PRESTRESSING STEEL Post-tensioned in field: Stressing Tendon, Post-tensioned in field, grouted strand, 15 m span, 50 metric ton	3.5	1.0 4.0 1.0 2.0 3.0	00 Skilled Foreman 00 Steel Fixtures (reinf.) 00 Equip. Oper (light) 00 Laborers 00 Stressing Equipment	52.00 52.00 52.00 52.00 52.00 52.00 64.00	0.00 0.00 0.00 0.00 0.00 0.00	470.000 450.000 425.000 425.000 420.000 410.000 400.000	541,000 518,000 489,000 483,000 472,000 460,000	484.000 457.000 451.500 441.000 430.000	0.000 0.000 0.000 0.000 0.000

		_		Section 1	250000000		The state of the s	-	10-	de la constant
CODE	ITEM DESCRIPTION	U	NIT	CREW STRUCTURE	HOURES	CREW EQUIP.	D. O. MIN	D. O. MAX	D. O. AVRG.	AVRG. E.H.
32 307-1400	Stressing Tendon, Post-tensioned in field, ungrouted strand, 30 m span, ungrouted 50 metric ton				32.00	24 00	490.000	564.000	527.000	0.04
032 307-1800	Stressing Tendon, Post-tensioned in field, ungrouted bars, 15 m span, 25 metric ton				32.00	24.00	410.000	472.000	441.000	0.05
032 307-2000	Stressing Tendon, Post-tensioned in field, ungrouted bars, 25 m span, ungrouted, 25 metric		\vdash		32.00	24:00	515.000	592.000	553.500	0.04
032 307-2220	ton. Steel Post-tensioned in field,ungrouted single strand, 30 m stab, 10 metric ton.		-		32.00	24.00	325.000	374.000	349.500	0.074
033	CAST-IN-PLACE CONCRETE		•		32.00	24.00	323.000	374.000	349,300	0.07
033 100	STRUCTURAL CONCRETE:									
033 130	CONCRETE IN PLACE:									
U33 130	Including forms (5 use), reinforcing steel, and finishing unless otherwise indicated									
033 130-0204	Cast in Place, with forms steel & finishing, Base granolithic, 25 mm x 127mm high, straight	ı	M	0.125 Laborer Forman 2.000 Cement Finishers 1.000 Caspenter 1.000 Steel fixer 1.000 Common Laborer 2.000 Gas Finishing Mach	41.00	16.00	75.000	86.000	80.500	0,213
033 130-0220	Cast in Place, with forms steel & finishing, Base, granolithic, 25 mm x 127mm high, cove	8		•	41.00	16 00	56.000	64.000	60.000	0.286
033 130-0300	Cast in Place, with forms steel & finishing Beams, 745 kg/m, 3 m span	CI	UM	1.000 Skilled Foreman 10.00 Carpenters & Siele Fæers (minf.) 4.000 Laborers 0.250 Carrent Finisher 1.000 Equip. Oper 0.375 Gas Engine Vibrator 0.125 Concrete Pump & Trans. Miser 0.500 Crans: 80 Ton. 0.125 Truck 4.000 Power tools:	130.60	41.00	5.000	6.000	5.500	8.200
033 130-0350	Cast in Place, with forms steel & finishing Beams, 745 kg/m, 7.6 m span	- 5	ÿ.		130.00	41.00	6.200	7.000	6.600	6.613
033 130-0720	Cast in place with forms, steel, Columns, square, 300 mm x 300 mm, Average reinforcing, 4.2 m high	CI	UM	1.000 Skilled Foreman 10.00 Campenters & Steel Fuors (tent.) 4.000 Laborers 0.250 Ceremt Finisher 1.000 Equip Oper 0.312 Concrete Pump & Trans- Muser 0.000 Crane 80 Ton 0.125 Truck 4.000 Fower tools	150.00	41.00	2 700	3.000	2.850	15.185
033 130-0920	Cast in place with forms, steel Columns, square, 600 mm x 600 mm, Average reinforcing, 4.2 m high				130.00	41.00	4.600	5.000	4.800	8.913
633 130-1020	Cast in place with forms, steel, Columns, square, 900 mm x 900 mm,				130.00	41.00	5.900	7.000	6.450	6.949
033 130-1040	Average reinforcing, 4.2 m high Cast in place with forms, steel, Columns, square, 300 mm x 1600 mm,				130 00	41.00	4.500	5.000	4.750	9 111
	Average reinforcing, 4.2 m high Cast in place including forms, steel & concrete, columns, round, tied, 300 mm diameter, Average reinforcement, 4.2 m high.			1,000 Skilled Foreman 9,00 Carpenturs & Steel Flusts(runk') 5,000 Laborers 0,250 Gernart Finisher 1,000 Equip, Oper 0,375 Gas Engine Worstor 0,125 Concrete Pump & Trans Mar 0,500 Crane 80 Ton 0,125 Tuck 2,000 Power tools	130.00	25.00	4.000	5.000	4,500	6.250
	Cast in place with forms, steel Columns, round, fied, 600 mm diameter. Average reinforcing, 4.2 m high.				130,00	25,00	6.000	7.000	6.500	4.167
033 130-1520	Cast in place with forms, steel, Columns, round, tied, 900 mm diameter,	7			130.00	25.00	8.200	9.000	8.600	3.049
	Average reinforcing, 4,2 m high Cast in place with forms steel Columns, round, tied, 900mm diameter.	+			400.00	15000	200000	6058250 2010-005	10000	ACCESS OF THE PARTY OF THE PART
333 1341 1340	Maximum reinforcing, 4.2 m high Cast in place with forms, steel & finish Elevated flat slabs, 600 kg/m2 Sup.Load, 6 m span			1.000 Skilled Foreman 10.00 Sementers&Steel Foemicreint] 4.000 Laborers. 2.50 Cement Finisher 1.000 Equip Oper 1.000 Equip Oper 0.375 Gas Engine Worstor 0.125 Concrete Pump &Trans. Moer 1.000 Fower tools	130.00	25.00 41.00	14.700	17.000	15.850	2.789
033 130-1930	Cast in place with forms,steel & firsth Elevated flat slabs, 600 kg/m2 Sup.Load, 8.4 m span	1			130.00	41.00	20.000	23.000	21.500	2.050
33 130-2100	Cast in place with forms, steel & finish Elevated flat slabs, 600 kg/m2	+			130.00	41.00	15.000	17.000	16.000	2.733
75-07 D# S (-11 7 -14 0)	Sub Load 4.6 m span Cast in place with forms, steel & finish Elevated flat subs, 600 kg/m2	+	-							
33 130-2300	Sup.Load, 7.4 m span Cast in place with forms, steel & firsth, Elevated Waffie slabs, 762mm domes, 600 kg/m2 Sup. Load, 6 m span			1.000 Skilled Foremen 10.000 Carpentiens&Steel Executive(1) 1.000 Laborers 1.000 Laborers 1.250 Cement Finisher 1.000 Equip: Oper 1.375 Gas Engine Vibrator 1.125 Concrete Pump & Trans Water 1.500 Crane 80 Ton 1.125 Truck	130.00	41.00	12.000	14.000	19.500	3.417
199 480 8855	Cast in place with forms steel & finish, Elevated Waffie slabs, 762mm domes,	+	+	4.000 Power tools		1000		-	V Kronen	2000
	600 kg/m2 Sub Load 9.2 m span		- 1		130.00	41.00	15.000	17.000	16.000	2.733

	N 03 : CONCRETE									
CODE	ITEM DESCRIPTION	UNI	Т	CREW STRUCTURE	HOURES	EQUIP.	D. O. MIN	D. O. MAX	D. O. AVRG.	AVRG. E.H.
033 130-2500	Cast in place with forms, steel & finish, Elevated joist stab, 762 mm pars 600 kg/m2 Sup. Load, 4.6 m span				130.00	41.00	11.800	14.000	12.900	3.475
033 130-2750	Cast in place with forms, steel & finish, Elevated joist slab, 762 mm pars 600 kg/m2 Sup. Load, 7.2 m span				130,00	41.00	14.400	17.000	15.700	2.847
033 130-2780	Cast in place with forms, steel & finish, Elevated One way beam slab, 600 kg/m2 Sup.	П			130.00	41.00	9.500	11.000	10.250	4.316
033 130-2950	Load, 7.6 m span Cast in place with forms, steel & finish, Elevated Two way beam stab, 600 kg/m2 Sup.	+	1		130.00	41.00	10.950	13.000	11.975	3.744
033 130-3200	Load, 7.6 m span Cast in place, Elevated slabs including finish only, not including forms or reinforcing:Regular Concrete, 150 mm slab	SON		0.50 Skilled foreman 6.00 Laborers 2.00 Cement Fisnrishers 2.00 Carpenters 1.00 Equip Operator 1.00 Concrete Pump (small)	92.00	40.00	438.000	504.000	471.000	0.091
Service especial	Cast inclose Lightweight concrete elegated plats including finish only 1750 kg/m². 54 mm			2.00 Gas engine vibrator 2.00 Gas Finishing Machine		corescu		200000000000000000000000000000000000000		60010-0
033 130-3300	Cast inplace, Lightweight concrete elevated slabs including finish only, 1750 kg/m3, 64 mm thick floor fill	140			92.00	40.00	438.000	504.000	471,000	0.091
033 130-3800	Cast in place including forms & steel, Spread footings, spread under 0.75 m3	CUM	,	1.000 Skilled Foreman 5.000 Carporities & Steel Flaers (rent) 0.25 Cement Firesther 4.000 Laboriers 0.250 Equip. Operators 0.375 Gas Enginge Worstor 0.25 Crane 35 Ton 0.125 Truck 0.125 Concrete Pump 0.125 Concrete Pump 0.200 Power Tool	84.00	23.00	15.000	17,000	16.000	1.533
033 130-3850	Cast in place including forms & steel, Spread footings, spread over 4 m3	T	1	7,27	84.00	23.00	18.000	21.000	19.500	1.278
033 130-4050	Cast in place, Raft (Matt) foundation, including forms & steel, over 1000 m3			0.50 Skilled Foreman 7,000 Carpenters & Steel Faers (reinf) 0.250 Cement Finisher 4,000 Labroers 0.500 Equip Operators 0.250 Gas Enginge Woratio 0.250 Crane 35 Ton 0.250 Truck 0.125 Concrete Pump 0.125 Concrete Pump 0.200 Power Tool	98.00	23.00	24.500	28.000	26.250	0.939
033 130-4050	Cast in place, Raft (Matt) foundation, including forms & steel, over 25 m3 & up to 500 m3	1	1	2000 POWE FOR	98.00	23.00	20.000	23.000	21.500	1.150
033 130-4050	Cast in place, Raft (Matt) foundation, including forms & steel, up to 25 m3	T	1		98.00	23.00	18.000	21.000	19.500	1.278
033 130-4200	Cast in place including forms & steel, Grade walls, 200 mm thick, 2400m m high			0.5 Skilled Foreman 10.00 Carpenters &Steel Fasers (rent). 5.000 Laborers 0.250 Cement Finisher 10.00 Equip Oper 0.250 Gas Engine Whrator 0.125 Concrete Pump &Trans Miser 0.625 Crane 80 Ton 0.125 Truck 4,000 Power tools	134.00	41.00	8.700	10.000	9.350	4.713
033 130-4250	Cast in place including forms & steel, Grade walls, 200 mm thick, 4.2 m high	+	1	TOOL TOPO DATE	134.00	41.00	7.000	8.000	7.500	5.857
	Cast in place including forms & steel,Grade walls, 300 mm thick, 4.2 m high	+	+		134.00	41.00	10.000	12.000	11.000	4.100
STORY OF STREET	Cast in place including forms & steel, Grade walls, 400 mm thick, 3.6 m high	+	1		134,00	41,00	15.000	17.000	16.000	2.733
ferrito-last control	Cast in place including forms & steel, Grade walls, 400 mm thick, 5.5 m high	1	1		134.00	41.00	10.400	12.000	11.200	3.942
033 130-4525	Cast in place including forms, steel & finish, Handicap access ramp, railing both sides, 1.50 m wide		1		134.00	41.00	14.500	17.000	15.750	2.828
033 1 3 0- 470 0	Cast in place including forms,steel and firitsh, Slab on grade, 150 mm thick			1.00 Skilled foreman 6.00 Carpenters & Sale Fatures(reinf.) 3.00 Laborers 3.00 Cement Finishers 0.0375 Concrete Pump (small) 0.0375 Concrete Pump (small) 0.000 Power tools 0.375 Gas Engine Wibrator: 3.00 Gas Finishing Ma	113.00	46.00	12.000	14.000	13.000	3.833
	Cast in place,Slab on grade including troweled finish, not incl. forms or reinforcing, 100mm thick slab	SOM	100	0.50 Skilled foreitran 1.00 Laborecs 3.00 Cement Fishishers 0.25 Concrete Pump (small) 0.25 Gas engine vibrator 3.00 Gas Finishing Machine	34.00	28.00	100.000	115.000	107.500	0.280
	Cast in place, Slab on grade, including troweled finish, not incl. forms or reinforcing, 200 mm thick slab		1	0.50 Sidied foreman 1,00 Laborers 3,00 Cernert Fishishers 0.25 Concrete Pump (small) 0.25 Gas engine vibrator 3,00 Gas Finishing Machine	34.00	28.00	88.440	102.000	95.220	0.317
			T		34.00	28.00	77.660	89.000	83.330	0.361
	Cast in place, Siab on grade, including troweled finish, not incl. forms or reinforcing, 300 mm thick slab									
033 130-4950	or reinforcing, 300 mm thick slab Cast in place, Slab on grade,including troweled finish, not incl. forms	+	+		34.00	28.00	70.770	81.000	75.885	0.396
033 130-4950	or reinforcing, 300 mm thick slab	+	1		34.00	28.00 28.00	70.770 90.280	81.000 104.000	75.885 97.140	0.396

ISION 03 : CONCRETE		CS .			responsible to the	NEW YOR	ETE DE		
E ITEM DESCRIPTION	UNI	т	CREW STRUCTURE	HOURES	CREW EQUIP.	D. O. MIN	D. O. MAX	D. O. AVRG.	AVRG E.H.
Cast in place, Slab on grade, including troweled finish, forms and reinforcing, 100mm thick slab			1 000 Skilled foreman 6 000 Carpenners & Steel Fodures (rosn.) 3 000 Labborers 3 000 Cement Finishers 0 125 Equip: Operators (med.) 2 375 Concrete Pump (small) 2 000 Power tools 0 375 Gas Engine Vibrator 3 000 Gas Finishing Machine	113.00	45.00	9.000	10.000	9.500	5.1
Cast in place, Stab on grade, including troweled finish, forms and reinforcing, 200mm thick stab.		1		113.00	46.00	17.200	20.000	18.600	2.6
Cast in place, Slab on grade, including troweled finish forms and reinforcing, 300mm thick slab		1		113.00	46.00	24.800	29.000	26.900	1.8
20-5760 Cast in place, Thickened Slab on grade, including troweled finish, forms	++	+		113.00	46.00	30.500	35.000	32.750	13
and reinforcing, 380mm thick slab and reinforcing, 380mm thick slab Cast in place concrete, Pile caps forms and reinf., square or rectangularover 7.5 m3	CUM		1.000 Skilled Foreman 5.00 Carpertiers & Steel Flaams (reint) 5.00 Labovers 0,250 Cenwidt Finisher 0,250 Cenwidt Finisher 0,351 Equip Oper 0,375 Gais Engine Worstor 0,375 Gais Crane 35 Ton 0,125 Truck 1,125 Concrete Puritip 2,000 Power tools	84.00	23 00	21.000	24.000	22.500	1.0
0-6050 Cast in place concrete, Pile caps forms and reinl., Triangular or hexagonal, over 7.5 m3		1	250.	84 00	23.00	20.500	24.000	22 250	1.1
Cast in place concrete, Retaining walls gravity. 1.2 m high including forms & reinforcement, tapered 200 mm top, 600 mm bottom		5 0 0 0 0	1.000 Skilled Foreman 1.000 Carpenters 1.000 Carpenters 1.000 Campenters 1.500 Cement Finisher 1.500 Equip Oper 1.375 Gas Engine Worator 1.375 Concrete Pump (small) 1.500 Crane 80 Ton 1.00 Power Tools 1.00 Power Tools	128.00	4200	15.500	18.000	16.750	2.7
0-6300 Cast in place concrete, Retaining walls, cartillever, 2.4 m high including forms, footing and reinforcement, tapered 300 mm top, 600 mm bottom.		1 0 0 N 0 0	0.500 Skilled Foreman 10 00 Carpenters & Steel Fixors relat) 1,900 Laborers 1,900 Laborers 1,900 Egup. Oper 1,250 Cement Finisher 1,900 Egup. Oper 1,250 Corrent Pump & Trans- diser 1,255 Corrent Pump & Trans- diser 1,255 Carne & Truck 1,255 Truck 1,900 Fower tools	134.00	41:00:	15.000	17.000	16.000	2.7
0-5800 Cast in place concrete, Stairs free standing treads 1.8 meter long, 300 mm wide, including forms, steel, landing 1.2 x 1.8 meters and finish.		8000400000	000 Skilled Foreman 000 Carpenters 250 Steel Fixers 125 Cement Finishers 125 Equip Operators 000 Laborers 125 Gas Engine Vibrator 125 Cancrete pump 375 Crane 80 Ton 125 Tuck 125 Tuck 125 Gas finishing mic 000 Power 1005	106.00	39 00	1.110	1.500	1.305	35.1
0-7000 Cast in place concrete. Stairs Landing, including forms, steel & finish		1 10 (n 4 0	000 Skilled Foreman 000 Carpentiers & Steel Fluers eint) 000 Laborers 250 Camert Finisher 000 Equip Oper 375 Gas Engine Vibrator 125 Concrete Pump & Trans item 500 Crane 80 Ton 125 Truck 000 Power tools	130.00	41.00	10.700	12 000	11.350	3.83
8 CUTTING CONCRETE See Div. 020-728									
2 DAMPPROOFING See Div. 071									
6 EQUIPMENT FOR PLACING CONCRETE See Div. 016-406 8 EXPANSION JOINT See Div. 031-132		_							
8 EXPANSION JOINT See Div. 031-132 4 CURING:		-							
-0100 Curing concrete with buriap, 4 uses assumed 340 gram	SQM	20	Common Laborers	16.00	0.00	450.000	518.000	484.000	0.00
-0200 Curing concrete with waterproof curing paper, 2-ply,reinforced		Ť		16.00	0.00	575.000	661.000	618.000	0.00
-0300 Curing concrete with sprayed membrane curing compound		1		16.00	0.00	700.000	805.000	752.500	0.00
6 GROUT:	1	•			200700				
-0010 Grout Column & machine bases,non-shriik niataliic grout, 25 mm deep	SQM		Cement Finishei Halper	16.00	0.00	5.500	6.000	5.750	0.00
-0050 Grout Column & machine bases,non-strink metallic grout, 50 mm deep		ľ	tesper *	16.00	0.00	4.000	5.000	4.500	0.00
GUNITE OR "SHOTCRETE":							- AG 61531	OSTSONTA S	105578
0300 Gunite, applied in 25mm layers, typical in place, including mesh, 50 mm thick, average	SOM	4 0 2 0 1 0 2 0 1 0 0 1		73.00	10.00	40.000	ar 207	43.000	92
0500 Gunite, applied in 25mm layers, typical in place, including mesh, 100 mm thick, average				73.00	10.00	30,000	35,000	32 500	0.33
0500 Gunite,applied in 25mm	layers,typical in place,including mesh, 100 mm thick,average	layers,typical in place,including mesh, 100 mm thick,average	0.1	0 125 Crene 80 Ton 0 125 Truck	0.125 Crane 80 Ton 0.125 Trusk	0.125 Crane 80 Ton 0.125 Touck	0.125 Crene 80 Ton 0.125 Touck	0 125 Crane 80 Ton 0 125 Truck	0.125 Crane 80 Ton 0.125 Truck

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CSI	N 03 : CONCRETE		CONTRACTOR OF THE PARTY OF THE	CREW	CREW	CREW	THE REAL PROPERTY.	D. O.	D. O.	AVRG.
CODE	ITEM DESCRIPTION	UNI	Т	STRUCTURE	HOURES	EQUIP.	D. O. MIN	MAX	AVRG.	E.H.
033 160-1100	Gurite, applied in 25mm layers, typical in place, including mesh, 100 mm thick, high finish average	1			73.00	10.00	20.000	23.000	21,500	0.500
033 168	PATCHING CONCRETE:									
033 168-0100	Patching concrete in Floors, 6 mm thick, small areas, regular grout	SOM	1,000	Cement Finisher Helper Tool set	16.00	8.00	20.000	23.000	21.500	0.400
033 168-0150	Patching concrete in Floors, 6 mm thick, small areas, epoxy grout	SQM	1.000	Cement Finisher Helper Tool set	16.00	8.00	15.000	17.000	16.000	0.533
033 168-2150	Patching concrete in Walls, including chipping, cleaning and epoxy grout Average				16.00	8.00	6.000	7.000	6.500	1.333
033 172	PLACING CONCRETE and vibrating,including labor & eqpt.:		111	NAME OF TAXABLE PARTY.						
033 172-0050	Placing concrete including vibrating labor & equipment for small beams, elevated pumped	CUM	9 Leb 1 Cer 2 Car 1 Equ 2 Gas	ment Finisher	104.00	24.00	80.000	92.000	86.000	0.300
033 172-0100	Placing concrete including vibrating labor & equipment for small beams, elevated, with crane and bucket		5 Labr 1 Cerr 1 Cerr 1 Equi 2 Gas 1 Con	ent Finisher	72.00	24.00	42.000	48.000	45.000	0.571
033 172-0200	Placing concrete,including vibrating,labor & equipment for large beams, elevated, pumped		9 Lab 1 Cen 2 Cen 1 Equ 2 Ges	nent Finisher	104.00	24.00	87.000	100.000	93.500	0.276
033 172-0400	Placing concrete including vibrating labor & equipment for columns, square or round, 300mm thick, pumped			ik .	72.00	24.00	28.000	32.000	30.000	0.857
033 172-0450	Placing concrete,including vibrating,labor & equipment for columns,square or round, 300 mm thick, with crane and bucket		5 Labo 1 Cerr 1 Cerr 1 Equi 2 Ges 1 Con	ent Finisher	72.00	24.00	28.000	32.000	30.000	0.857
033 172-0800	Placing concrete including vibrating labor & equipment for columns, square or round, 600 mm thick, pumped		5 Labo 1 Cem 1 Cem 1 Equi 2 Gas	ent Finisher	72.00	24.00	54.000	62.000	58.000	0.444
033 172-0850	Placing concrete including vibrating labor & equipment for columns, square or round, 600 mm thick, with crane and bucket		5 Lebo 1 Cem 1 Carp 1 Equi 2 Ges 1 Cond	ent Finisher	72.00	24.00	46.000	53.000	49.500	0.522
033 172-1000	Placing concrete,including vibrating,labor & equipment for columns,square or round, 900 mm thick,pumped		5 Labo 1 Cerp 1 Cerp 1 Equit 2 Gas 1 Cond	ent Finisher enter p.Oper.(med.) Engine Vibrators rete Pump (small)	72.00	24.00	104.000	120.000	112.000	0.231
	Placing concrete,including vibrating labor & equipment for columns,square or round, 900 mm thick, with crane and bucket		5 Labo 1 Cem 1 Carp 1 Equit 2 Gas 1 Cond	ent Finisher	72.00	24.00	81.000	93.000	87.000	0.296
033 172-1400	Placing concrete,including vibrating,labor & equipment for elevated slabs,less than 150 mm thick.pumped		9 Labo 1 Cerr 2 Cerr 1 Equi 2 Ges	ent Finisher	104.00	24.00	87,000	100.000	93.500	. 0.276
	Placing concrete, including vibrating, labor & equipment for elevated slabs, less than 150 mm thick, with crane & bucket		5 Labo 1 Cerp 1 Cerp 1 Equip 2 Gas 1 1 Conc	ent Finisher	72.00	24.00	60.000	69.000	64.500	0.400
	Placing concrete,including vibrating,labor & equipment for elevated slabs,150 mm to 250 mm thick,pumped		9 Labo 1 Cem 2 Cerp 1 Equi 2 Gas	ent Finisher	104.00	24.00	105.000	121.000	113.000	0.229

001	N 03 : CONCRETE ITEM DESCRIPTION UNIT		The same of the sa	200					and the last
CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	HOURES	EQUIP.	D. O. MIN	D. O. MAX	D. O. AVRG.	AVRG.
33 172-1650	Placing concrete, including vibrating labor & equipment for elevated slabs over 250 mm trick, with crane & bucker.	CUM	Labor Foreman Laborers Lement Finisher Carpenter Carpenter Equip. Ope Gas Engine Worstors Concrete Bucket, 0 76rd Hyd Crane 50 metric for	72:00	24.00	69.000	79.000	74.000	0.3
33 172-19 0 0	Placing concrete including vibrating labor & equipment for footings, continuus, shallow, direct chute		Labor Foreman Laborers Carpenter Cement Finisher Gas Engine Vibrators	64.00	16.00	93.000	107.000	100.000	0.1
33 172-1950	Placing concrets.including vibrating, labor & equipment for footings, continous, shallow, pumped		1 Labor foreman 5 Laborers 1 Cement Finisher 1 Carpenter 1 Equip Oper (med) 2 Gas Engine Vibrators 1 Concrete Pump (small)	72.00	24.00	71,000	82.000	76.500	0.3
33 172-2000	Placing concrete,including vibrating,labor & equipment for footings, continuous, shallow, with crane and bucket		1 Labor Foreman 5 Laborers 1 Cament Furisher 1 Carpenter 1 Egupt Oper 2 Gas Engine Vocators 1 Concrete Bucket, 0.76m3 1 Hyd Crane, 50 metric for	72 30	24 00	66.000	76,000	71,000	0.3
33 172-2100	Placing concrete,including vibrating,labor & equipment for footings, Deep continuous footings, direct chute		Labor Foreman Laborers Carpenter Cement Finisher Gas Engine Vibrators	64.00	16.00	112.000	129.000	120.500	0.1
33 172-2150	Placing concrete including vibrating labor & equipment for footings, Deep continuous footings pumped		1 Labor foreman 5 Laborers 1 Cement Finisher 1 Carpenter 1 Equip Oper (med.) 2 Gas Engine Vibrators 1 Concrete Pump (small)	72.00	24.00	93.000	107.000	100.000	0.2
33 172-2600	Placing concrete,including vibrating,labor & equipment for spread tootings,over 4 m3, direct chule		Labor Foreman Laborers Carpenter Cement Finisher Gas Engine Vibrators	64.00	16.00	87,000	100.000	93.500	0.1
33 172-2650	Placing concrete,including vibrating,labor & equipment for spread footings,over 4 m3, pumped		1 Labor foreman 5 Laborers 1 Cement Finisher 1 Carpenter 1 Equip.Oper.(med.) 2 Gas Engine Vibrators 1 Concrete Pump (small)	72.00	24 00	85.000	98.000	91.500	0.2
33 172-2700	Placing concrete,including vibrating labor & equipment for spread footings,over 4 m3, with crane and bucket		1 Labor Foreman 5 Labores 1 Cement Finisher 1 Carpenter 1 Equip. Opel 2 Gas Engine Vibrators 1 Concrete Bucket, 0 76m3 1 Hyd Crane, 50 metric tori	72.00	24 00	70.000	81.000	75.500	0.3
13 172-2950	Placing concrete including vibrating labor & equipment for foundation mats, over 1000 m3, pumped		1 Labor foreman 5 Laborers 1 Cament Finisher 1 Carpenter 1 Equip Oper (med) 2 Gas Engine Vibrators 1 Concrete Pump (small)	72.00	24.00	233,000	268 000	250.500	0.16
3 172-3000	Placing concrete including vibrating labor & equipment for foundation mats, over 1000 m3, with crane and bucket		1 Labor Foreman 5 Laborers 1 Cement Finisher 1 Carpenter 1 Equip Oper 2 Gas Engine Worstors 1 Concrete Bucket 0 75m3 1 Hyd Orane,50 metric ton	72.90	24.00	100.000	115.000	107.500	0.24
33 172-3200	Placing concrete,including vibrating labor & equipment for grade, beams, direct chute		1 Labor Foreman 5 Laborers 1 Carpenter 1 Cement Finisher 2 Gas Engine Vibrators	64.00	16.00	112.000	129 000	120.500	0.14
3 172-3250	Placing concrete,including vibrating,labor & equipment for grade,beams,pumped		1 Labor foreman 5 Laborers 1 Cement Finisher 1 Carpenter 1 Carpenter 1 Equip Oper (med) 2 Gas Engine Vibrators 1 Concrete Pump (small)	7290	24.00	105.000	121.000	113.000	0.22
3 172-3300	Placing concrete, including vibrating labor & equipment for grade; beams, with crane and buset		1 Labor Foreman 5 Laborers 1 Cennort Finisher 1 Carpenter 1 Equip. Oper 2 Gas Engine Vibrators 1 Concrete Bucker C.76m3 1 Hyd.Crane 50 metric ton	72 90	24,00	100.000	115.000	107.500	0.24
5 172-3500	Placing concrete,including vibrating,labor & equipment for high rise, more than 5 stones & up to 15 stones, pumped, adds/story	CUM	Labor Foreman S Laborers I Cement Finisher Carpenter I Carpe Oper I Equip Oper I Equip Oper I Gas Engine Vibrators Concrete Bucket, 0 76rs3 Hyd Crane 50 metric ton						0.00
172-351U	Placing concrete, including vibrating labor & equipment for high rise more than 5 stories, with crane and bucket adds/story								0.00
3 172-3520	Placing concrete including vibrating labor & equipment for high rise, more than								0.04

DIVISIO	N 03 : CONCRETE	F - 100			民國党	65.50			
CSI CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	CREW HOURES	CREW EQUIP.	D. O. MIN	D. O. MAX	D. O. AVRG.	AVRG. E.H.
033 172-3510	Placing concrete,including vibrating,labor & equipment for high rise, more than 15 stories, with crane and bucket adds/story								0.04
033 172-4000	Placing concrete including vibrating labor & equipment for pile cap, over 8m3 direct chute		Labor Foreman Laborers Carpenser Cement Finisher Gas Engine Vibrators	64 00	16.00	140.000	161.000	150.500	0.114
033 172 <mark>-405</mark> 0	Placing concrete,including vibrating,labor & equipment for pile cap,over 8m3 pumped		1 Labor foremen 5 Laborera 1 Cement Pinisher 1 Carpenter 1 Equip Oper (med) 2 Gas Engine Withotors 1 Concrete Pump (small)	72.00	24.00	116.000	133.000	124.500	0.207
033 172-4100	Placing concrete, including vibrating labor & equipment for pile cap, over 8m3 with crane and bucket		Labor Foreman Laborers Cerrent Finisher Carpenter Equip Oper Case Engine Vibrators Concrete Bucket.0 76m3 Hyd Crane, 50 metric ton	72.00	24,00	100.000	115.000	107.500	0.240
	Placing concrete including vibrating labor & equipment for slab over 150 mm thick, direct chute		Labor Foreman Laborets Carpenter Cement Finisher Gas Engine Vibrators	64.00	16.00	116.000	133.000	124.500	0.138
	Placing concrete,including vibrating,labor & equipment for slab over 150 mm thick, pumped		1 Labor foreman: 5 Laborers 1 Cement Finisher: 1 Carpente! 1 Equip Oper (med.) 2 Gas Engine Vibrators 1 Concrete Pump (small)	72.00	24.00	116.000	133.000	124,500	0.207
	Placing concrete,including vibrating,labor & equipment for slab over 150 mm thick, with crane and bucket		Labor Foreman Laborres Cement Finisher Carpenter Equip Oper Cass Engine Wibrators Concrete Bucket 0 78n/3 Hyd. Crane, 50 metric ton	72.00	24.00	100.000	115.000	107.500	0.240
	Placing concrete,including vibrating labor & equipment for walls, 200 mm thick, direct chute		Labor Foreman Laborers Carpenter Cement Finisher Gas Engine Vibrators	64.00	16.00	70.000	81.000	75.500	0.229
033 172-4950	Placing concrete including vibrating labor & equipment for walls, 200 mm thick, pumped		1 Labor foreman 5 Laborers 1 Cement Finisher 1 Carpenter 1 Equip Oper (med) 2 Gais Engine Vibrators 1 Concrete Pump (small)	72:00	24.00	76:000	87.000	81.500	0.316
	Placing concrete including vibrating labor & equipment for walls, 200 mm thick, with crane and bucket		1 Labor Foreman 5 Laborers 1 Cement Finisher 1 Cerpenter 1 Equip Opet 2 Gas Engine Worstors 1 Concrete Bucket,0 76m3 1 Hyd Crane,50 metric ton	72,00	24.00	66.000	76.000	71.000	0.364
033 172-5100	Placing concrete, including vibrating, labor & equipment for walls, 300 mm thick, pumped		1 Labor foreman 5 Laborrers 1 Cement Finisher 1 Carpenter 1 Equip Oper (med) 2 Gas Engine Vibrators 1 Concrete Pump (small)	72 00	24.00	77.000	89.000	B3.000	0.312
	Placing concrete,including vibrating labor & equipment for walls, 400 mm thick,with crane and bucket		1 Labor Foreman 5 Laborers 1 Cement Finisher 1 Carpenter 1 Equip. Oper 2 Gas Engine Vibrations 1 Concrete Bucket, 0.76m3 1 Hyd Crane, 50 metric ton	72.00	24.00	60.000	69.000	64.500	0.400
172 30 10	Add to above, concrete placing items and as required for concrete dumping using wheeled riding carts, 45 meter haut.		0.125 Labor Foreman 1.00 Laborers 1.00 Concrete Wheeled Carls	9.00	8.00	40.000	46.000	43.000	0.200
	SAWING CONCRETE See division 020-728				-				
	STAIR TREAD INSERTS: Stair tread inserts, cast iron, abrasive, 75 mm wide	LM	1 Carpenter	8.00	0.00	20.000	23.000	21.500	0.000
	Stair tread inserts, cast iron, extruded aluminum safety tread, 100 mm wide	LM	1 Carpenter	8.00	0.00	18.000	21.000	19.500	0.000
	Stair tread,cement filled pan type,non-sip	SQM	1 Cement finisher	8.00	0.00	7.000	8.000	7.500	0.000
	WATERPROOFING AND DAMPPROOFING See division 071							y 3	
ALC: NO CO.	CONCRETE FINISHING:								
	FINISHING FLOORS:			22550	1			1000	
	Finishing concrete floors monolithic, screed finish	SOM	1 Cement Finisher 0 125 Labor Foreman	8.00	0.00	70.000	B1.000	75,500	0.000
33 454-0100 F	Finishing concrete floors, float finish		Cement Finisher Gas Finishing Mach	9.00	8.00	55.000	63.000	59.000	0.145
33 454-0150 F	inishing concrete floors,Broom finish			9.00	8.00	50,000	58.000	54.000	0.160
33 454-0200 F	Finishing concrete floors, Steel trowel finish, for resident tile			9.00	8.00	45.000	52.000	48.500	0.178
33 454-0250 F	inishing concrete floors monolithic, Steel trowel finish.			9.00	8.00	36.000	41.000	38.500	0.222
33 454-0600	Concrete, Integral topping and finish, using 1:1.2 mix, 25mm thick	1 1	0.125 Labor Foreman 1 Laborer 2 Cement Finishers 2 Gas Finishing Mach	25.00	16.00	55.000	63.000	59.000	0.291

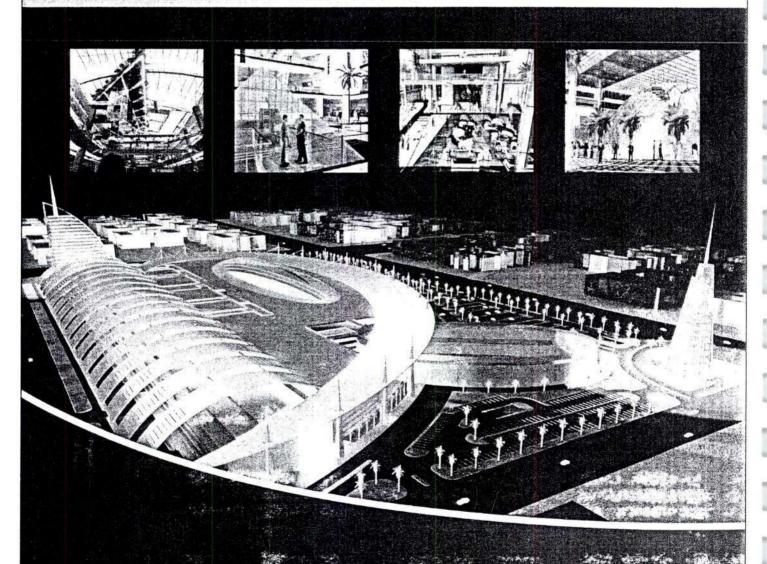
	N 03: CONCRETE	The state of		- LANGE TONG NO	100年120日 100日	200 64, 100	Mark Mark	200		
CODE	ITEM DESCRIPTION	UNI	Т	CREW STRUCTURE	HOURES	EQUIP.	D. O. MIN	D. O. MAX	D. O. AVRG.	AVRG. E.H.
33 454-095	0 Concrete, Granolithic topping, laid after, 1:1:1-1/2 mix, 50 mm thick		1		25.00	18.00	40.000	46.000	43,000	0.4
33 454-120	Concrete, Granolithic topping Heavy duty, 1:1.2, 20 mm thick, preshrunk, gray, over 2000 m2		1		25 00	16.00	25.000	29.000	27,000	0.64
33 454-135	Concrete,Granolithic topping,for colors, 2.44 kg/m2, add, Average		1		25.00	16.00	115.000	132.000	123,500	0.13
33 454-1600	Concrete,Exposed local aggrégate finish, Average	11	,	Cement linisher	E 00	0.00	45.000	52.000	48.500	0.00
033 454-2000	O Concrete. Floor hardeners, metallic,light service, 2.44 kg/m2	П	1	.25 Labor Foreman Cement Finisher Gas Finishing Mach	10.00	8.00	68,000	78.000	73.000	0.11
33 454-2050	0 Concrete, Floor hardeners, metallic, Medium service, 3.66 kg/m2		1		10.00	6.00	60.000	69.000	64,500	0.13
33 454-2100	0 Concrete.Floor hardeners, metallic,Heavy service, 4.88 kg/m2		1		10.00	8.00	52.000	60.000	56.000	0.15
33 454-2150	0 Concrete, Floor hardeners, metallic, Extra Heavy service, 7.32 kg/m2	SON	1 1	25 Labor Foreman Cement Finisher Gas Finishing Mach	10.00	8.00	45.000	52.000	48.500	0.17
33 454-2300	0 Concrete, Floor hardeners, Non-metallic, light, service, 2,44 kg/m2		1		10.00	8.00	68.000	78.000	73 000	0.11
33 454-2450	0 Concrete, Floor hardeners, Non-metallic, Extra Heavy, 7.32 kg/m2				10 00	8.00	45.000	52.000	48.500	0.17
	O Concrete, Ploor colored hardener, metallic, medium service 3.66 kg/m2		+		10.00	8.00	35.000	40.000	37.500	0.22
33 454-2650	Concrete, Floor colored hardener, non-metallic, medium service 3.66 kg/m?		T		10.00	8.00	45.000	52.000	48.500	0.13
	Concrete floor Dustproofing silicate liquids, 2 coats	+	1	Cement finisher	B.00	0.00	100.000	115.000	107,500	0.00
	0 Concrete floor, Dustproofing, Epoxy coating, 1 coat, clear	1	+		8.00	0.00	115.000	132.000	123.500	0.00
Complete Complete	0 Concrete floor, Dustproofing, Epoxy coating, 1 coat, Colors	1	+		B 00	0.00	115.000	132,000	123,500	0.00
	0 Concrete Stair finish float	+++	+		8.00	0.00	20.000	23.000	21.500	0.00
Art Section Control	0 Concrete Stair finish, Steel trowel finish		+		8.00	0.00	15.000	17.000	100000000000000000000000000000000000000	-
5 N.S. C. N. S 1 P.S. D.O.	5 SANCORD CHARLES AND CONTROL COMPLETON SANCOLOGY OF THE	++	+		27,0000	7.756	1000000	0.11/2/00/20	16,000	0.00
Market State	O Concrete Stair finish, Silicon carbide finish, 1.22 kg/m2	+	1		8.00	0.00	10.000	11.000	10.500	0.00
33 458	FINISHING WALLS:	ľ	14	Cement Finisher						
33 458-0050	Finishing Concrete Walls, Burlap rub with grout	SOM		Helper	16.00	0.00	56.000	64.000	60.000	0.00
33 458-0100	Finishing Concrete Walls, Carborundum rub, dry			520%	16.00	0.00	28.000	32.000	30.000	0.00
33 458-0300	D Finishing Concrete Walls, Bush hammer,green concrete		1	25 Labor Foreman Laborers Equipment Oper (light) Air Compressor 118 US \ Accessories & Hoses	42.00°	8.00	75.000	86.000	80.500	0.10
33 458-0600	Finishing Concrete Walls, Float finish, 2 mm thick	\top	_	Cement Finisher	8.00	0:00	22.000	25.000	23.500	0.00
33 458-0700	Finishing Concrete Walls, Sandblast, light penetration	П	1	25 Foreman 00 Laborer 00 Cement Finishers	26.00	16.00	85.000	98.000	91.500	0.18
			2	00 Gas Finishing Mach						
WENT THE PERSON NAMED IN	Finishing Concrete Walls, Sandblast, Heavy penetration		1		24.00	16.00	28.000	32.000	30.000	0.57
34	PRECAST CONCRETE	14								
34 100	STRUCTURAL PRECAST:		-							
34 104	BEAMS:		1.	Struc Steel Foreman						
34 104-0011	Precast concrete beams, "L" shaped, 6.0m span, 300 mm x 500 mm, and within 25 meter reaching distance	EA	5 2 1 1 1 4	Struc Steel Workers Common Labore: Equip Oper (Crane) Equip Oper Offer Truck Crane 136 metric t Hydraulic Jacks Tools Set	88.00 pn	72.00	25.000	29.000	27.000	2.88
34 104-1050	Precast concrete beams, "L"shaped, Larger size span beams,	LM			88 (X)	72,00	100.000	115.000	107.500	0.72
34 104-1100	up to 10 ton units and within 25 meters reaching distance Precast concrete beams,"L"shaped, Larger size span beams,		+		20.00	72 00	45.000	50,000	40.500	4.00
	up to 15 ton and within 45 meters reaching distance	-		-	88.00	7230	45.000	52.000	48.500	1.60
34 112	COLUMNS:		_							
	Precast concrete columns Rectangular to 3.7 m floor high, small columns, 1 floor, up to 3 ton units and within 30 meters reaching distance.	LM	6 2 1 1 1	Struc Steel Foreman Struc Steel Workers Common Laborer Equip Oper (Cranie) Equip Oper Olier Truck Crane 138 metric ti Hydrautic Jacks Tools Set	88.0 0	72.00	74.000	85.000	79.500	0.97
34 112-0050	Precast concrete columns Rectangular to 3.7 m floor high, large columns,				88.00	72.00	45.000	52.000	48.500	1.600
34 112-0300	1 floor, up to 10 ton units and within 30 meters reaching distance Precast concrete columns Rectangular to 7.2 m floor high, large columns.	+	+		88.00	72.00	85.000	98.000	91,500	0.84
	1 floor, up to 5 ton units and within 30 meters reaching distance	\vdash	+		86.00	7240				0.04
	11 floor, up to 10 top up to and within 45 meters reaching distance				88.00	72.00	30.000	35.000	32.500	2.40
	The state of the s			_ 1	88.00	72.00	24.000	28.000	26.000	3.00
	Precast concrete columns Rectangular to 3,7 m floor high, large columns		+							
34 112-1200	Precast concrete columns Rectangular to 3.7 m floor high, large columns 1 floor, up to 10 ton units and within 60 meters reaching distance CURBS ROADWAY TYPE See Div. 025-250	+								
34 112-1200 34 124	Precast concrete columns Rectangular to 3.7 m floor high, large columns. 1 floor, up to 10 ton units and within 60 meters reaching distance.	<u> </u>	-							
34 112-1200 34 124 34 128	Precast concrete columns Rectangular to 3.7 m floor high, large columns. 1 floor, up to 10 ton units and within 60 meters reaching distance. CURBS ROADWAY TYPE See Div. 025-250 JOISTS:	EA	3 S	Skilled Formen Skilled Workers Laborer Equip Oper (Grane)	48.00	8.00	42.000	48.000	45.000	0.19
34 112-1200 34 124 34 128 34 128	Precast concrete columns Rectangular to 3.7 m floor high, large columns 1 floor, up to 10 ton units and within 60 meters reaching distance CURBS ROADWAY TYPE See Div. 025-250 JOISTS: Precast Concrete Joists, 195 KG/M2 L.L., 150 mm deep for 3.6 m spans, low rise 8 floors building	EA	3 S	Skilled Workers Laborer		312731				0.190
34 112-1200 34 124 34 128 34 128-0010	Precast concrete columns Rectangular to 3.7 m floor high, large columns. 1 floor, up to 10 ton units and within 60 meters reaching distance. CURBS ROADWAY TYPE See Div. 025-250 JOISTS: Precast Concrete Joists, 195 KG/M2 L.L., 150 mm deep for 3.6 m spans, tow rise 8 floors building. Precast Concrete Joists, 195 KG/M2 L.L., 200 mm deep for 4.8 m spans, tow rise 8 floors building.	EA	3 S	Skilled Workers Laborer Equip Oper (Crane)	48.00 48.00	8.00	42.000	48.000 36.000	45.000 33.500	0.190
34 112-1200 34 124 34 128 34 128-0010	Precast concrete columns Rectangular to 3.7 m floor high, large columns 1 floor, up to 10 ton units and within 60 meters reaching distance CURBS ROADWAY TYPE See Div. 025-250 JOISTS: Precast Concrete Joists, 195 KG/M2 L.L., 150 mm deep for 3.6 m spans, low rise 8 floors building Precast Concrete Joists, 195 KG/M2 L.L., 200 mm deep for 4.8 m spans.	EA	3 S	Skilled Workers Laborer Equip Oper (Crane)		312731				
34 112-1200 34 124 34 128 34 128-0010 34 128-0050 34 128-0100	Precast concrete columns Rectangular to 3.7 m floor high, large columns. 1 floor, up to 10 ton units and within 60 meters reaching distance. CURBS ROADWAY TYPE See Div. 025-250 JOISTS: Precast Concrete Joists, 195 KG/M2 L.L., 150 mm deep for 3.6 m spans, low rise 8 floors building Precast Concrete Joists, 195 KG/M2 L.L., 200 mm deep for 4.8 m spans, low rise 8 floors building Precast Concrete Joists, 195 KG/M2 L.L., 250 mm deep for 6 m spans, low rise 8 floors building Precast Concrete Joists, 195 KG/M2 L.L., 250 mm deep for 6 m spans, low rise 8 floors building Precast Concrete Joists, 195 KG/M2 L.L., 300 mm deep for 7.2 m spans, low rise 8 floors building	EA	3 S	Skilled Workers Laborer Equip Oper (Crane)	48.00	8.00	31.000	36 000 28 000	33.50	C 28
34 124 34 128 34 128-0010 34 128-0050	Precast concrete columns Rectangular to 3.7 m floor high, large columns. 1 floor, up to 10 ton units and within 60 meters reaching distance. CURBS ROADWAY TYPE See Div. 025-250 JOISTS: Precast Concrete Joists, 195 KG/M2 L.L., 150 mm deep for 3.6 m spans, low rise 8 floors building Precast Concrete Joists, 195 KG/M2 L.L., 200 mm deep for 4.8 m spans, low rise 6 floors building Precast Concrete Joists, 195 KG/M2 L.L., 250 mm deep for 6 m spans, low rise 6 floors building Precast Concrete Joists, 195 KG/M2 L.L., 250 mm deep for 7.2 m spans, low rise 8 floors building Precast Concrete Joists, 195 KG/M2 L.L., 300 mm deep for 7.2 m spans, low rise 8 floors building	EA	3 :	Skilled Workers Laborer Equip Oper (Crane)	48.00 48.00	8.00	31.000 24.000	96 NOO	33.500 26,000	C 26

REPORT THE PROPERTY	ON 03 : CONCRETE	1 4107	4	Water and the same of the same	共 1000000000000000000000000000000000000		Par T			Sale H
CSI CODE	ITEM DESCRIPTION	UN	нт	CREW STRUCTURE	CREW HOURES	CREW EQUIP.	D. O. MIN	D. O. MAX	D. O. AVRG.	AVRG.
034 128-055	2 floor building, labor handling & installation, 50 meter handling distance				80.00	0.00	14.800	17.000	15.900	0.0
034 128-060	Precast Concrete Joists, 195 KG/M2 L.L., 150 mm deep for 7.2 m spans, 2 floor building, labor handling & installation, 50 meter handling distance				80.00	0.00	10.000	12.000	11.000	0.00
034 136	SLABS:	•		¥		1				
034 136-001	Precast roof slabs, Prestressed hollowcore or plank, 195 Kg/m2 LL, 200 mm deep, Straight jobs without difficulties.	so	M	1 Struc Steel Foreman 6 Struc Steel Workers 2 Common Laborer 1 Equip Oper (Grane) 1 Equip Oper (Grane) 1 Equip Oper Ollier 1 Truck Crane, 136 metric for 4 Hydraulic Jacks 4 Tools Set	86.00	72,00	600.000	690.000	645.000	0.12
034 136-0010	O Precast roof slabs, Prestressed hollowcore, or plank, 195 Kg/m2 LL, 200 mm deep, Jobs with difficulties,				86.00	72.00	320.000	368.000	344.000	0.22
034 136-0200	Precast floor slabs, Prestressed hollowcore or plank, 490 Kg/m2 LL, 250 mm deep				88.00	72.00	520.000	598.000	559.000	0.13
034 140	TEES:									
034 140-0200	Precast prestressed concrete, Double tee, 3 m wide, floor members, 18m spancup to 0.8 m deep & up to 390 Kg/m2 LL	SOM	u	Struc Steel Foreman Struc Steel Workers Common Laborer Equip Oper (Crane) Equip Oper Offer Truck Crane, 136 metric ton Hydraulic Jacks Tools Set	88.00	72.90	648.000	745,000	696.500	0.111
034 140-0350	Precast prestressed concrete Double tee, 3 m wide, roof members, 15 m span;up to 0.3 m deep.				86.00	72.00	540.000	621.000	580.500	0.133
034 140-1250	Propert Consults Daylets to a flow on the		1		86.00	72.00	288.000	331.000	309.500	0.250
034 140-1450	Bronnet Connecte Do Alexander	\Box	1		88.00	72.00	468.000	538.000	503.000	0.154
034 140-2050	Precast Concrete, Double tees, roof members light weight, 500 mm x 2400 mm wide	\forall	1		88 00	72.00	400.000	500.000		- 10000000 - 100000000
	12 m span	\sqcup	-		86.00	72.00	489.000	562.000	525.500	0.147
034 140-2150	18 m span	1	+		86 DO	72 00	702.000	807.000	754.500	0.103
034 140-2250	Precast Concrete, Double tees, roof members standard weight, 0.4 m deep, 2.4 m wide 9 m span				88 00	72.00	368.000	423.000	395.500	0.196
034 140-2350	Precast Concrete, Double tees, roof members standard weight, 500 mm x 2400 mm wide 12 m span				88.00	72.00	432.000	497.000	464.500	0.167
34 500	ARCHITECTURAL PRECAST:					1				52999350
34 504	WALL PANELS:									
034 504-0150	Precast Concrete, Wall panel uninsulated, smooth gray, low rise, size:1.2 m x 2.4 m, 100 mm thick, up to 1 ton and within 20 meters reaching distance.	SOM		Struc Steel Foreman Struc Steel Workers Common Laborer Equip Oper (Crame) Equip Oper Otter Truck Crane, 136 metric ton Hydraulic Jacks Tools Set	88 00	8.00	53.000	61.000	57.000	0.151
34 504-0200	Precast Concrete Wall panel uninsulated smooth gray low rise, size:2.4 m x 2.4 m, 100 mm thick, up to 2 tons and within 20 meters reaching distance.	SQM	1 1 1 4	Struc Steel Foreman Struc Steel Workers Common Laborer Equip Oper (Clane) Equip Oper Otler Truck Crane, 136 metric ton Hydraulic Jacks Tools Sel	88.00	8.00	67.000	77.000	72.000	0.119
	Precast Concrete Wall panel uninsulated, smooth gray, low rise, size 2.4 m x 4.8 m, 100 mm thick, up to 3 tons, and within 20 meters reaching distance.	SQM	1 1 1 4	Struc Steel Foreman Struc Steel Workers Common Laboter Equip Oper (Crane) Equip Oper Other Truck Crane, 136 metric ton Hydraulic Jacks Tools Set	86.00	8.00	109.000	125.000	117.000	0.073
34 504-0400	Precast Concrete, Wall panel uninsulated, smooth gray, low rise, size:2.4 m x 2.4 m, 200 mm thick, up to 2.5 tons, and within 20 meters reaching distance.		T		88.00	8.00	59.000	68,000	63.500	0.136
34 504-0500	Precast Concrete Wall panel uninsulated exposed aggregate low rise, size:2.4 m x 2.4 m, 150 mm thick, up to 2 tons, and within 20 meters reaching distance.		T		86,00	8.00	67.000	77.000	72.000	0.119
34 504-0520	Precast Concrete, Wall panel, uninsulated, exposed aggregate, low rise, size 2.4 m x 2.4 m, 200 mm thick, up to 3 tons and within 20 meters reaching distance.	T	Ť		88.00	8.00	59.000	68.000	63.500	0.136
34 504-0560	Precast Concrete Wall panel insulated, textured, 10 floors high rise, size:1.6 m x 2.4 m, 200 mm thick, up to 2.5 ton and 20 meters reaching distance		Ť		88.00	8.00	35.000	40.000	37.500	0.229
34 504-0600	Precast Concrete Wall panel insulated textured, 10 floors high rise, size 1.8 m x 3.2 m, 200 mm thick up to 3 ton and 20 meters reaching distance		Ť		88.00	8.00	53.000	61,000	57.000	0.151
34 504-0700	Precast Concrete, Wall panel insulated, textured, 10 floors high rise, size 2.4 m x 4.8 m,	_	t		88.00	8.00	65.000	75.000	70.000	0.123
34 504-0700	200 mm thick, up to 5 ton and 20 meters reaching distance Precast Concrete, Wall panet insulated textured, 10 floors high rise, stze:2.4 m x 4.8 m.	+	t		88.00	8.00	65.000	75.000	70.000	0.123
	200 mm thick, up to 5 ton and 20 meters reaching distance. PRECAST SPECIALTIES:	<u>, </u>	-				00.000	75.555	70.000	0.123
And the second second	LINTELS:		_			-			-	
34 802		LM	11	25 Labor Foreman Bricklayer Bricklayer Helper	16.00	0.00	60.000	69.000	64.500	0.000
to seek to a	Lintel Precast concrete, 100 mm x 200 mm, to 1500 mm long, low rise		42.5	25 Labour Foreman						
4 802-0800 (Lintel Precast concrete, 100 mm x 200 mm, to 3.6 m long, 5 to 10 floors	I	11	Bricklayer Bricklayer Helpers Equip. Oper	34.00	8.00	55.000	63.000	59.000	0.145
4 802-0800 L	The second section of the second section section of the second section		11	Bricklayer Bricklayer Helpers	34.00	8.00	55.000 42.000	63.000 48.000	59.000 45.000	0.145
34 802-0800 L 44 802-0850 L 44 802-1250 L	Lintel Precast concrete, 100 mm x 200 mm, to 3.6 m long, 5 to 10 floors	I	11	Bricklayer Bricklayer Helpers Equip. Oper						

DIVISIO	N 03 : CONCRETE		BRANCE OF THE		A			M Marie	21
CSI CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	CREW HOURES	CREW EQUIP.	D. O. MIN	D. O. MAX	D. O. AVRG.	AVRG. E.H.
035	CEMENTITIOUS DECKS								
035 200	LIGHTWEIGHT CONCRETE:								
035 204	CONCRETE CHANNEL SLABS:								
035 204-0010	Concrete channel slabs 70 mm or 90 mm thick, straight	SOM	0.5 Labor Foreman 3 Carpensers 1 Laborer 1 Equip Oper (crane) 1 Hyd. Grane.11 metric ton	44 00	8.00	120,000	138.000	129 000	0.06
035 204-0050	Concrete channel slabs 70 mm or 90 mm thick, chopped up			44.00	8 90	65.000	75.000	70.000	0.123
035 204-0300	Concrete channel slabs 200 mm thick span to 7 m			44.00	8.00	85.000	98.000	91:500	0.094
035 208	CONCRETE PLANK		10						
035 208-0010	Concrete plank lightweight,nailable, T&G, 50 mm thick	SOM	0.5 Labor Foreman 3 Carpenters 1 Laborer 1 Equip Oper (crane) 1 Hyd. Crane 11 metric ton	44 00	8 00	170,000	196.000	183.000	0.047
035 206-0100	Concrete plank lightweight,nailable,T&G, 95 mm thick			44.00	8 00	136,000	156.000	146.000	0.059
035 212	INSULATING:								
035 212-0010	Roof Insulating, ligtweight cellular concrete roof fill Portland cement and foaming agent	CUM	0.5 Labor Foreman 3 Laborers 2 Cement Finishers 1 Equip Oper (med) 1 Concrete Pump (small)	52.00	8 00	28.000	32.000	30.000	0.286
035 212-0200	Roof Insulating Poured vermiculite or peritis, field mix, 1:6 roof fill add formboards above, 50 mm thick			52 00	8.00	25,000	29.000	27.000	0.320
035 212-0250	Roof Insulating Ready mix 1:6 mix roof fill, 75 mm thick			52.00	8.00	595.000	684.000	639.500	0.013
035 300	WOOD FIBER SYSTEMS								
035 304	FORMBOARD:								
035 304-0070	Pormboard,including sub-purlins non-asbestos, fiber cement, 6 mm thick	SQM	0.5 Labor foreman 1 Struc Steel Worker 1 Wekter 1 Carpenter 1 Gas Welding Machine	28.00	8.00	215.000	247.000	231 000	0.037
035 304-0100	Formboard,including sub-purlins non-asbestos,fiberglass, 25 mm thick			28 00	8.00	205.000	236.000	220.500	0.039
035 306	WOOD FIBER:			-1/-					
035 306-0010	Lightweight cement wood fiber, T&G planks, 25 mm thick	som	2 Carpenters	16,00	8.00	100.000	115.000	107.500	0.000
035 306-0011	Lightweight cement wood fiber, T&G planks, 65 mm thick			16.00	0.00	90,000	104.000	97,000	0.000

Division 4 Masonry





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الإدارة العامة : ص.ب ١٣٠٢٨ جدة ٢١٤٩٣ العملكة العربية السعودية هاتف ۲-۱۸۳۰۳۰۱ فاکس ۱۹۲۲۹۰۱۰ بريد الكتروني saadjeddah@alsaad.com.sa

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Estimating Tips:

041 Mortar & Masonry Accessories:

المالح المار The terms mortar and grout are often used interchangeably, and incorrectly. Mortar is used to bed masonry units, seal the entry of air and moisture, provide architectural appearance, and allow for size variations in the units. Grout is used primarily in reinforced masonry construction and is used to bond the masonry to the reinforcing steel. Estimator should be aware of their unique uses and costs.

042 Unit Masonry:

Masonry pricing requires full knowledge of the various factors and parameters affecting costs, such as building shape, type of building, kind of mortar, wall thickness, joints style and quality of workmanship.

The most common types of unit masonry are brick and concrete masonry. The major classifications of brick are building brick and glazed brick, fire brick and pavers. Brick and concrete block are priced by the piece and then converted into price per square meter of wall.

All masonry walls, whether interior or exterior, require bracing. The cost of bracing walls during construction should be included by the estimator and this bracing must remain in place until permanent bracing is complete. Estimator shall also pay attention to all anchoring accessories of walls to the structural frames.

Brick bonds, patterns, running bonds type are major factors affecting productivity and cost. For jobs that require large amount of cutting bricks, consider a portable masonry saw.

Contractor shall pay attention to the costs of cleaning face bricks, this cost varies with the kind of bricks used. Contractor shall focus on other miscellaneous masonry costs such as extra labor and hoisting for materials used in high-rise buildings. Contractors shall focus on pricing extra materials, labor involved to meet seismic requirements for concrete masonry walls.

CODE	ITEM DESCRIPTION	UNIT	21	CREW UCTURE	CREW	CREW EQUIP.	D. O. MIN	D. O. MAX	D. O. AVRG	AVRG. E.H.
041	MORTAR & MASONRY ACCESSORIES				6, 4					The same
041 100	MORTAR									
041 016	GROUTING:									
041 016-0020	Grouting bond beams & Lintels, pumped,not incl.block 200 mm thick, 200 mm deep.	CUM			32.00	8.00	8.000	9.000	8,500	1.000
041 016-0050	Grouting bond beams & Lintels, pumped,not incl.block 255 mm thick, 200 mm deep.	*			32.00	8.00	8.200	9.000	8.600	0.97
041 016-0060	Grouting bond beams & Lintels, pumped, not incl. block 300 mm thick; 200 mm deep.	SQM			32.00	8.00	8.815	10.000	9.408	0.908
041 016-0200	Grouting concrete block cores.solid,100 mm thick,by hand		1 Brickleyer		16.00	0.00	18.000	21.000	19.500	0.000
	Grouting concrete block cores, solid, 150 mm thick, pumped,			letpers (light) complete w	32.00	24,00	112.000	129.000	120.500	0.214
041 016-0250	Grouting concrete block cores, 200 mm thick,pumped	++-	Hoses. Hopp	er& Accessories	32.00	24.00	82.000	94,000	88.000	0.293
discourse was a	Grouting concrete block cores, 305 mm thick,pumped	\vdash	1		32.00	24.00	48.000	55.000	51,500	0.500
A University and		++	-		32.00	24.00	164.000	189.000	176.500	0.146
CONTRACTOR S	Grouting cavity walls, 50 mm space, pumped	++			32.00	24.00	109.000	125.000	117.000	0.220
	Grouting cavity walls, 75 mm space, pumped	-	+		32.00	24.00	82.000	94.000	88.000	0.293
500000000000000000000000000000000000000	Grouting cavity walls,102 mm space	-	-	-	32.00	24.00	55,000	63.000	59,000	0.29
and the second of the second	Grouting cavity walls,150 mm space	+		-	200000	Institute of	170000000	ABENDE 2864	2050082	272
OPEN MICHOENERS	Grouting door frames, 915 mm x 2135 mm opening	OPENIN	3	-	32.00	24.00	59.000	68.000	63.500	0.407
none terror years.	Grouting door frames, 1.8 m x 2.1 m opening	<u> </u>		•	32,00	24.00	41.000	47.000	44.000	0.585
041 024	MORTAR:		1							
041 024-0100	Mortar with masonry cement, mix type M, 1:1:6 mlx, field mix.	CUM	0.125 forema 1.000 Bricklas 2.000 Commi 1.000 Mixer 0	ver on Laborer	25.00	5.00	4.800	6.000	5.400	1.667
041 024-0200	Mortar with masonry cement, mix type N, 1:3 mix, field mix.				25.00	8.00	4.800	6.000	5.400	1.66
041 024-2100	Mortar with portland cement and lime, mix type M, 1:1/4:3 mix, field mix				25.00	8.00	4.800	6.000	5.400	1.667
041 024-2200	Mortar with portland cement and lime, mxl type N, 1:1:16 mix, 5170 Kpa, field mix				25.00	8.00	4.800	6.000	5.400	1.66
041 024-2800	Mortar for glass block				25.00	8.00	4.800	6.000	5.400	1.667
041 036	SURFACE BONDING:									
041 036-0020	Surface Bonding Block walls with fiberglass mortar, gray or white color, not incl. block work	SOM	1 Bricklayer		8.00	0.00	30,000	35.000	32.500	0.000
041 500	MASONRY ACCESSORIES									
041 504	ANCHOR BOLTS:									1 2000
041 504-0010	Anchor bolts hooked whut and washer, 12 mm dia., 200 mm long	EA	1 Bricklayer		8.00	0.00	100.000	115.000	107.500	0.000
041 504-0030	Anchor bolts hooked whut and washer, 12 mm dia., 300 mm long				8.00	0.00	90.000	104.000	97.000	0.000
041 504-0050	Anchor bolts hooked whut and washer,16 mm dia., 300 mm long				8.00	0.00	80.000	92.000	86.000	0.000
041 504-0070	Anchor bolts hooked whut and washer, 20 mm dia., 300 mm long	1			8.00	0.00	70.000	81.000	75.500	0.000
041 508	CONTROL JOINT:									
041 508-0010	Control joint Rubber or PVC, 100 mm. wall	LM	1 Bricklayer		8.00	0.00	160.000	184.000	172.000	0.000
041 508-0100	Control joint rubber or PVC, 150 mm wall only				8.00	0.00	130.000	150.000	140.000	0.000
041 508-0140	Control joint rubber or PVC, 200 mm and wider wall				8.00	0.00	100.000	115.000	107.500	0.000
	Control joint rubber or PVC, 300 mm wall	1			8.00	0.00	75.000	86.000	80.500	0.000
041 512	JOINT REINFORCING:	-								
041 512-0010	Joint Reinforcing steel bars, placed horiz 10 mm bars	KG	1 Bricklayer		16.00	0.00	275.000	316.000	295.500	0.000
0.00	Joint Reinforcing steel bars, placed horiz, 16 mm, & 20 mm bars		1 Helper	1	16.00	0.00	440.000	506.000	473.000	0.000
		\vdash	-	-	16.00	0.00	220.000	253.000	236.500	0.000
	Joint Reinforcing steel bars, Placed vertical, 10mm bars	-			16.00	0.00	350.000	403.000	376.500	0.000
A CONTRACTOR CONTRACTOR	Joint Reinforcing steel bars, Placed vertical, 16 mm, & 20 mm bars	LM	-	-	16.00	0.00	1100.000	1265.000	1182.500	0.000
041 512-0060	-		-	+	387080	2000			806.500	
041 512-0060 041 512-0200	Joint Reinforcing Wire strips, regular truss, to 150 mm wide, galvanized	LM		4	16.00	0.00	750.000	1265.000	0.0000000000000000000000000000000000000	0.000
941 512-0060 941 512-0200 941 512-0250	Joint Reinforcing Wire strips, regular truss, to 150 mm wide, galvanized Joint Reinforcing Wire strips, regular truss, to 300 mm wide, galvanized	LM	-		45.60	8.66		UUU.COST	1182.500	0.000
041 512-0060 041 512-0200 041 512-0250 041 512-0400	Joint Reinforcing Wire strips, regular truss, to 150 mm wide, galvanized Joint Reinforcing Wire strips, regular truss, to 300 mm wide, galvanized Joint Reinforcing, Cavity truss with drip section to 150 mm wide				16.00	0.00	1100.000	- Acherostos	000	****
041 512-0060 041 512-0200 041 512-0250 041 512-0400 041 512-0450	Joint Reinforcing Wire strips, regular truss, to 150 mm wide, galvanized Joint Reinforcing Wire strips, regular truss, to 300 mm wide, galvanized Joint Reinforcing, Cavity truss with drip section to 150 mm wide Joint Reinforcing, Cavity truss with drip section to 300 mm wide	L M			16.00 16.00	0.00	750.000	863.000	806.500	0.000
041 512-0060 041 512-0200 041 512-0250 041 512-0400	Joint Reinforcing Wire strips, regular truss, to 150 mm wide, galvanized Joint Reinforcing Wire strips, regular truss, to 300 mm wide, galvanized Joint Reinforcing, Cavity truss with drip section to 150 mm wide	L M		<u> </u>	1	0.00	750.000	863.000		
041 512-0060 041 512-0200 041 512-0250 041 512-0400 041 512-0450 041 518	Joint Reinforcing Wire strips, regular truss, to 150 mm wide, galvanized Joint Reinforcing Wire strips, regular truss, to 300 mm wide, galvanized Joint Reinforcing, Cavity truss with drip section to 150 mm wide Joint Reinforcing, Cavity truss with drip section to 300 mm wide		. 1 Bricklayer	•	1	2000		- Acherostos	806.500	
041 512-0060 041 512-0200 041 512-0250 041 512-0400 041 512-0450 041 518	Joint Reinforcing Wire strips, regular truss, to 150 mm wide, galvanized Joint Reinforcing Wire strips, regular truss, to 300 mm wide, galvanized Joint Reinforcing, Cavity truss with drip section to 150 mm wide Joint Reinforcing, Cavity truss with drip section to 300 mm wide WALL PLUGS:		1 Bricklayer	<u> </u>	16.00	0.00	750.000	863.000		0.000
041 512-0060 041 512-0200 041 512-0250 041 512-0400 041 512-0450 041 518-0010 041 518-0010	Joint Reinforcing Wire strips, regular truss, to 150 mm wide, galvanized Joint Reinforcing Wire strips, regular truss, to 300 mm wide, galvanized Joint Reinforcing, Cavity truss with drip section to 150 mm wide Joint Reinforcing, Cavity truss with drip section to 300 mm wide WALL PLUGS: Wall Plugs, for nailing to brickwork, 26 ga., galvanized,plain,or wood fill	100 PCS	. 1 Brickløyer	•	16.00	0.00	750.000	863.000		
041 512-0060 041 512-0200 041 512-0250 041 512-0400 041 512-0450 041 518-0010 041 520-0010	Joint Reinforcing Wire strips, regular truss, to 150 mm wide, galvanized Joint Reinforcing Wire strips, regular truss, to 300 mm wide, galvanized Joint Reinforcing, Cavity truss with drip section to 150 mm wide Joint Reinforcing, Cavity truss with drip section to 300 mm wide WALL PLUGS: Wall Plugs, for nailing to brickwork, 26 ga., galvanized, plain, or wood fill WALL TIES:	100 PCS			8.00	0.00	750.000 8.000	9.000	8.500	0.000
041 512-0060 041 512-0200 041 512-0250 041 512-0400 041 512-0450 041 518-0010 041 520-0010	Joint Reinforcing Wire strips, regular truss, to 150 mm wide, galvanized Joint Reinforcing Wire strips, regular truss, to 300 mm wide, galvanized Joint Reinforcing, Cavity truss with drip section to 150 mm wide Joint Reinforcing, Cavity truss with drip section to 300 mm wide WALL PLUGS: Wall Plugs, for nailing to brickwork, 26 ga., galvanized,plain,or wood fill WALL TIES: Wall Ties, to brick veneer, galv., corrugated, 20 mm x 180 mm, 22 ga Wall Ties, Cavity wall, 150 or 200 mm long, 2 type, galvanized, 6 mm,or 5mm	100 PCS	1 Bricklayer		16.00 8.00 8.00	0.00	750.000 8.000 8.000	9.000	8.500	0.00.0

	N 04: MASON	### 「今日、大学、日本日本では、「日本日本学・大学」。	新疆 到			N. Carlotte		4 76	∠* , .		
CODE		ITEM DESCRIPTION	UNI	STR	REW	HOURS	CREW EQUIP.	D. O. MIN	D. O. MAX	D. O. AVRG	AVRG E.H.
041 524-0010	Vent Box, Extruded alun	ninium, 100 mm deep, 60 mm x 206 mm	EA	1 Bricklayer 1 Helper	-	8.00	0.00	36.000	41.000	38.500	0.0
041 524-0050	Vent Box, Extruded alun	ninium, 100 mm deep, 127 mm x 206 mm or 57 mm x 635 mm				8.00	0.00	30.000	35.000	32.500	0.0
041 524-0150	Vent Box, Extruded alum	ninium, 100 mm deep, 127 mm x 420 mm or 127 mm x 420 mm				8.00	0.00	25,000	29.000	27.000	0.0
041 524-0200	Vent Box, Extruded alun	ninium, 100 mm deep, 150 mm x 420 mm				8.00	0.00	24.000	28.000	26.000	0.0
041 524-0250	Vent Box, Extruded alun	ninium, 100 mm deep, 197 mm x 420 mm				8:00	0.00	23.000	26.000	24.500	0.00
041 524-1050	Ventilator vent box stain	iess steel, 200 mm x 200 mm		1		8.00	0.00	28.000	32.000	30.000	0.0
041 524-1100	Ventilator vent box,stain	iess steel, 300 mm x 300 mm				8.00	0.00	26.000	30.000	28.000	0.00
041 524-1150	Ventilator vent box,stain	less steel, 300 mm x 150 mm	11		1	8.00	0.00	28.000	32.000	30.000	0.00
042	UNIT MASONR				NAME OF TAXABLE	BESS	THE S	10/4 E	Ten a		
042 050	CHIMNEYS:										
042 054	CHIMNEY	Chimney for foundation, add to prices below	, see	div. 033050	0	ALLEN TO LASE					
042 054-0100	Chimney size 410 x 420 complete w/ mortar	0 mm, flue size 210 x 220 mm, brick size 200 x 71 x 100 mm	LM	0.250 Foremai 0.250 Equip. C 3.000 Bricklay 2.000 Helpers 0.125 Mixer 0.; 2.000 Power T 1.000 Hodcam	perator 8 26 m3 00f	44.00	25.00	18.360	21.000	19.680	1.36
042 054-0200		mm,2 flue lines each 210 x 220 mm, brick size 200 x 71 x 100		1.000 1.000.0		44.00	25.00	11.190	13.000	12.095	2.23
042 054-0300		mm, 2. flue lines each 220 x 320 mm, brick size 200 x 71 x 100				44.00	25,00	11.000	13.000	12.000	2.27
042 054-0350	mm complete w/ mortar. Chimney size 520 x 840	mm, 2 flue lines each 320 x 320 mm, brick size 200 x 71 x 100	H			44.00	25.00	10.740	The same of the sa		
	mm complete w/ mortar. Chimney, Metal, high ten	np. steel jacket, factory lining, 610 mm dia. 24"		0.50 Struc Stee 4.00 Struc Ste 2.00 Common 1.00 Equip Ope	el Workers Laborers	60.00	8.00	13.500	16.000	11.370	0.59
042 054 1000	Chimne Mari Nich	7.6.4.1.1.10		1.00 Crane, 36							
STEWNSON WEIGHT	Second and the second second	np. steel jacket, factory lining, 1.5 m dia. 60"	+			60.00	8.00	6.750	8.000	7,375	1.18
042 100	BRICK MASONRY CAULKING:	6 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6									
042 104	COLUMNS:	See division 079-204									
042 108-0400	Columns Brick,480 mm o mortar.	x 480 mm, brick size 240 x 71 x 115 mm, joints 10 mm including	LM	0.250 Foreman 0.250 Equip O 3.000 Bricklaye 2.000 Helpers 0.125 Mater 0.2 2.000 Power 1 1.000 Hodgaria	perator r 8 m3 poli	44.08	25.00	11.540	13:000	12.270	2.16
042 108-0800	Columns Brick, 740 mm mortar	x 740 mm, brick size 240 x 71 x 115 mm,joints 10 mm including				44.00	25.00	11.030	13.000	12.015	2.26
		x 1000 mm, brick size 240 x 71 x 115 mm, joints 10 mm including			1	44.00	25.00	10.540	12.000	11.270	2.37
and the Control of th	COPING:		T								
042 116-0010	Coping for 300 mm wall,	aluminium	LM	1 Bricklayer	680	16.00	0.00	24.000	28.000	26.D00	0.00
nteres de la constitución	NO 10 10 10 10 10 10 10 10 10 10 10 10 10	precast conc. 255 mm wide, 100 mm tapers to 90 mm	T	Bricklayer Hel Bricklayer		16.00	0.00	24.000	28.000		
			-	1 Bricklayer Het 1 Bricklayer	per	1000000	HEART.	artern product	- 11/1-11/11	26.000	0.000
		precast conc. 355 mm wide, 100 mm tapers to 90 mm	+	1 Bricklayer Het	per	16.00	0.00	22.000	25.000	23.500	0.000
	Coping wall Corner, prec Coping limestone for 300		EA	-		16.00	0.00	32.000	37.000	34.500	0.00.0
	Coping limestone for 300		LM			16.00	0.00	20.000	23.000	21.500	0.000
		CONTRACTOR AND	-	-	-	16.00	0.00	17.000	20.000	18.500	0.000
	Coping Marble to 100 mm	Part Carry Control Con	•		•	16.00	0.00	20.000	23.000	21.500	0.000
SHALL SHEET	FLASHING LINTELS	See division 076-204		-							
	ACCEPING SECRETARY	See division 051-232	-								
	REINFORCING	See division 041 -512									
	SAND BLAST: Sand Blast Building face,	wet system, Average	SOM	0.25 Foreman 1.00 Equip. Op: 4.00 Laborers 1.00 Air Compr with Air Toc Accessorie Hoses	, 0.12m3/s	42 00	8,00	60.000	69.000	64.500	0,133
	Sand Blast Building face,	dry system, Average	SQM	ļ .		42.00	8.00	136.000	156.000	146.000	0.059
	SAWING:			1-2-1		·					
154		200040 2000 Quit 10 0004 40 V 20 V 20 V	LM	1 Bncklayer 1 Helper		8.00	8.00	18.000	21.000	19.51	1 544
042 154 42 154-0010	Sawing brick or block by h		LW								
042 154 42 154-0010 042 162	SIMULATED BRICK		LW		SIEG STE						
042 154 42 154-0010 042 162			SOM	1 Bricklayer 1 Helper		16.00	0.00	24.000	28.000	- , -, -i-	
042 154 42 154-0010 042 162 42 162-0010	SIMULATED BRICK	n,baked on colors:		1 Bricklayer		16.00	0.00	24.000	28.000	26.000	0.000
042 154 42 154-0010 042 162 42 162-0010 42 162-0050	SIMULATED BRICK Simulated brick, atuminium Simulated brick, fiberglass	n,baked on colors:		1 Bricklayer		2000	73770	January 1997	000000000		8 6 03

CODE	ITEM DESCRIPTION	UNIT	1 200	REW CTURE	CREW	CREW EQUIP.	D. O. MIN	D. O. MAX	D. O. AVRG	AVRG. E.H.
42 166	STEAM CLEAN:	11.000				1 S S S S S				91100-11
42 166-0300	Steam Clean building, not including scafolding.common face brick, average	SOM	0.25 Foreman 1.00 Eqpt. Ope 4.00 Laborers 1.00 Air Compr Air Tools, A Hoses	,0.12m3/s with	42.00	8.00	140.000	161.000	150.500	0.05
42 166-0400	Steam Clean building,not including scafolding,wire cut face brick, average				32.00	8.00	88.000	101.000	94.500	0.09
42 184	WALLS:									
42 184-0800	Walls brick,common 100 mm x 71 mmx 200 mm, 100 mm wall, as face brick	SQM	0.250 Foreman 0.250 Equip. Of 3.000 Bricklaye 2.000 Helpers 0.125 Mixer 0.2 2.000 Power To 1.000 Hodcame	8 m3 xxx	44.00	25.00	11.096	13.000	12.048	2.25
42 184-0850	Walls brick,common,100mm x 71mm x 200 mm bricks,100 mm thick, as back up wall				44.00	13.00	11.030	13.000	12.015	1.17
42 184-0900	Walls brick,common,100 mm x 68mm x 200 mm bricks, 200 mm thick, as back up wall				44.00	25.00	10.610	12,000	11.305	2.35
42 184-1000	Walls brick.common,100 mm x 71 mm x 200 mm bricks,300 mm thick, as back up wall				44.00	25.00	10.450	12.000	11,225	2.392
42 184-1050	Walls brick,common,100 mm x 71 mm x200 mm bricks,400 mm thick, as back up wall	•	0.250 Foreman 0.250 Equip. Op 3.000 Bricklayer 2.000 Helpers 0.250 Mixer 0.2 2.000 Power To 1.000 Hodcame	perator r 8 m3 sol	44.00	26.00	9.920	11.000	10.460	2.621
042 190	WALL TIES See division 041 -520									
042 192	WALL PLUGS See division 04	1 -518				-				
194	WINDOW SILL:				, ,					
42 194-0010	Windows Sill Bluestone, thermal top, 255 mm wide, 40 mm thick	SQM	1.00 Brick layer 1.00 Brick layer	helpers	16.00	0.00	4.824	6.000	5.412	0.000
42 194-0050	Windows Sill Bluestone, thermal top, 255 mm wide, 50 mm thick				16.00	0.00	4.338	5.000	4.669	0.000
42 194-0100	Windows Sill Cut stone, 125 mm x 200 mm plain	LM			16.00	0.00	20.000	23.000	21.500	0.000
42 194-0200	Windows Sill Face brick on edge, brick, 200 mm wide				16.00	0.00	30.000	35.000	32.500	0.000
42 194-0400	Windows Sill Marble, 230 mm wide, 25 mm thick				16.00	0.00	20.000	23.000	21.500	0.000
42 194-0600	Windows Sill precast conc., 230 mm wide, 100 mm tapers to 75 mm, 200 mm wall				16.00	0.00	28.000	32.000	30.000	0.000
42 194-0650	Windows Sill precast conc., 255 mm wall, 280 wide				16.00	0.00	22.000	25.000	23.500	0.000
	Windows Sill precast conc., 300 mm wall, 330 mm W, 90 mm tapers to 65 mm	+		•	16.00	0.00	21,000	24.000	22.500	0.000
042 200	CONCRETE UNIT MASONRY									
042 216	CONCRETE BLOCK, BACK-UP: Including Scaffolding		-							
042 216-0010	Concrete Block, Back-up, Reinforced, alternate courses, bar spacing 1.2 meter, 200 mm x 400 mm, 100 mm thick	SQM	0.250 Foreman 4.000 Bricklayer 2.000 Bricklayer 0.250 Equip. Op 0.125 Mixer 0.2 0.500 Power To 0.250 Crene 0.125 Fork Lift 0.125 Truck 0.500 Hodicarrie	Helpers perator 8 m3 pols	52.00	13.00	38.120	44.000	41.060	0.341
42 216-1100	Concrete Block, Back-up, Reinforced, alternate courses, bar spacing 1.2 meter, 200 mm x 400 mm, 150 mm thick				52.00	13.00	33.750	39.000	36.375	0.385
42 216-1150	Concrete Block, Back-up, Reinforced, alternate courses, bar spacing 1.2 meter, 200 mm x 400 mm, 200 mm thick				52.00	13.00	28,490	33.000	30.745	0.456
42 216-1200	Concrete Block, Back-up. Reinforced, alternate courses, 200 mm x 400 mm, 250 mm thick				52.00	15.00	25.460	29.000	27.230	0.589
42 216-1250	Concrete Block, Back-up, Reinforced, alternate courses, 200 mm x 400 mm, 300 mm thick				52 00	15.00	21.870	25.000	23.435	0.686
42 216-2000	Concrete Block, Back-up, Reinforced, alternate courses, 200 mm x 400 mm, 100 mm thick, Exposed with 2 side tooked joints.				52.00	13.00	36.310	42.000	39.155	0.358
92 2 10-2 1UU	Concrete Block, Back-up, Reinforced, alternate courses, 200 mm x 400 mm, 150 mm	1			52.00	13.00	32.150	37.000	34.575	0.404
	thick Exposed with 1 side tooled joints. Concrete Block, Back-up, Reinforced, alternate courses, 200 mm x 400 mm, 200 mm.	-			52.00	13.00	27,130	31,000	29.065	0.479
	thick ,Exposed with 1 side tooled joints. Concrete Block, Back-up, Reinforced, alternate courses, 200 mm x 400 mm, 300 mm thick ,Exposed with 1 side tooled joints.	SOM	0.250 Foreman 4.000 Bricklayer 2.000 Bricklayer 0.250 Equip. Op 0.250 Mixer 0.2 0.500 Power To 0.250 Crane 0.250 Fork Lift 0.125 Truck	s Helpers perator 8 m3	52.00	15.00	20.220	23.000	21.610	0.742

CODE	ITEM DESCRIPTION	UNIT	700000033310	REW CTURE	CREW	CREW EQUIP.	D. O. MIN	D. O. MAX	D. O. AVRG	AVRG. E.H.
042 220-0100	Concrete Block, embossed simulated brick face, 1 Face tooled joint, not reinforced, 200 mm x 400 mm units, 100 mm thick	SOM	0.250 Foreman 4.000 Bncklayers 2.000 Bncklayer Heipers 0.250 Equip Operator 0.125 Maxer 0.26 m3 0.500 Power Tools 0.250 Caree 0.125 Fork Lift 0.125 Tack 0.500 Hoddamer		52.00	13.00	41.870	48.000	44.935	0.31
042 220-0250	Concrete Block, embossed simulated brick face, 1 Face tooled joint, not reinforced, 200 mm x 400 mm units, 150 mm thick	1			52.00	13.00	37.720	43,000	40.360	0.34
042 220-0500	Concrete Birch ambassed simulated bright face 1 Each tooled pint				52.00	13.00	35.932	41.000	38.466	0.362
042 220-1450	Consists Blook Benerative Base was add amount for 200 and 400 and				52.00	13.00	34,020	39.000	36.510	0.38
042 220-1500	Concrete Block, Decorative, Deep grooved, smooth face, 200 mm x 400 mm x 200 mm				52.00	13.00	25 930	30.000	27.965	0.501
042 220-5100	thick Concrete block, decorative, split rib profile units, 25 mm deep ribs, 8 ribs, 200 mm x 400				52.00	13.00	34.020	39.000	36.510	0.382
042 220-5150	mm x 100 mm thick. Concrete block, decorative, split rib profile units, 25 mm deep ribs, 8 ribs, 200 mm x 400.		-		52.00	13.00	29.400	34.000	31.700	0.442
042 220-5200	Congress block description soft the profile uplie 25 mm do to the 200 mm to 200	+	-		200000	10000		(21/03/03/6	500 (200)	5250V/C00
- CANADA AND CANADA	Constant block deposition and there are appeared and there are a 100 mm at 100 mm.	H			52.00	13:00	25.930	30.000	27.965	0.501
042 220-6100	thick		-		52.00	13.00	34,020	39.000	36.510	0.382
042 220-6150	thick				52.00	13.00	29.400	34.000	31,700	0.442
042 220-6200	Concrete block, decorative, split face or scored split face, 200 mm x 400 mm x 200 mm thick	l l			52.00	13.00	25.930	30.000	27.965	0.501
042 224	CONCRETE BLOCK, INTERLOCKING:									-116 117 118
042 224-0400	Concrete block interlocking, 200 mm x 400 mm units, 200 mm thick, including grout and reinforcing	SOM	0.250 Foreman 4.000 Bncklayers 2.000 Bncklayers 0.250 Equip Opt 0.250 Mixer 0.28 0.500 Power Too 0.250 Crane 0.250 Fork Lift 0.125 Truck 0.500 Hodcamer	Helpers erator m3	52.00	15.00	27.530	32.000	29.765	0.545
042 224-0450	Concrete block interlocking, 200 mm x 400 mm units, 300 mm thick, including grout and		0.000 (0.000)		52.00	15.00	19.300	22.000	20.650	0.777
042 232	CONCRETE BLOCK, PARTITIONS: Including Scaffolding									
042 232-0200	Acoustical slotted concrete block, noise reduction coefficient, 0.5 or 0.65, 100 mm thick	SQM	0.250 Foremen 4.000 Bricklayers 2.000 Bricklayers 0.250 Equip. Ope 0.250 Mixer 0.28 0.500 Power Too 0.125 Crane 0.125 Fork Lift 1.125 Truck 0.500 Hodcamer	Helpers erator m3	52.00	13.00	26.690	31.000	28.845	0.487
042 232-0250	Acoustical slotted concrete block,noise reduction coefficient,0:50 or 0.65, 150 mm thick				52.00	13.00	23.630	27.000	25.315	0.550
042 232-0400	Acoustical slotted concrete block,noise reduction coefficient, 0.45 or 0.55,200 mm thick				52.00	13.00	19.940	23.000	21,470	0.652
042 232-0500	Acoustical slotted concrete block, noise reduction coefficient, 0.60 or 0.65,200 mm thick				52.00	13.00	80-5-98	23.000	21.470	0.652
042 232-2900	Lightweight concrete block, tooled joints, solid, not reinforced, 200 mm x 400 mm x 100				52 00	13.00	19.940 49.470	57.000	53,235	0.263
042 232-2950	mm thick Lightweight block, tooled joints, 2 side solid, not reinforced, 200 mm x 400 mm x 150 mm				52.00	13.00	44.470	51.000	47.735	0.292
042 232-3000	thick. Lightweight concrete block, tooled joints, solid, not reinforced, 200 mm x 400 mm x 200.	-			52.00	13.00	37.250	43.000	40,125	0.349
AUTOMATE SATISFA	mm thick Lightweight concrete block, tooled joints, solid, not reinforced, 200 mm x 400 mm x 250				52.00	13.00	33.450	38,000	35.725	0.349
042 232-4100	mm thick Regular concrete block, tooled joints, 2 sides, hollow not reinforced, 200 mm x 400 mm x						uxavian	Marine September		
Vincelle / Est	100 mm thick Regular concrete block, tooled joints, 2 sides, hollow not reinforced, 200 mm x 400 mm x				52.00	13.00	40.050	46.000	43.025	0.325
042 232-4150	150 mm thick				52.00	13.00	35.460	41.000	38.230	0.367
	Regular block, tooled joints, 2 sizes, hollow not reinforced, 200 mm x 400 mm x 200 mm thick	SOM	0.250 Foreman 4.000 Bricklayers 2.000 Bricklayer H 0.250 Equip, Oper 0.250 Mixer 0.28 r 0.500 Power Tool 0.125 Crane 0.125 Fork Lift 0.125 Truck 0.500 Hodcamer	ielpers rator m3	52.00	13.00	29.930	34.000	31.965	0.434
	Regular block, tooled joints, 2 sides, hollow not reinforced, 200 mm x 400 mm x 250 mm thick				52.00	13.00	26 750	31.000	26 975	0.486
42 232-4300	Regular block, tooled joints, 2 sides, hollow not reinforced, 200 mm x 400 mm x 300 mm thick				52.00	13.00	22.970	26.000	24.465	0.566
		-			1	270000	1386-7030		74.000	
42 232-4500	Regular block, no tooled joints, hollow, non - reinforced, 200 mm x 400 mm x 100 mm thick				52.00	13.00	44.320	51.000	47,660	0.293

CODE	ITEM DESCRIPTION	UN	IJΤ	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		HOURS	CREW EQUIP.	D. O. MIN	D. O. MAX	D. O. AVRG	AVRG. E.H.
Western Control	Regular block, no tooled joints, hollow, non - reinforced, 200 mm x 400 mm x 200 mm			STNO	OTOTIL	-				PACE AS A SECOND	
)42 232-4600	thick					52.00	13.00	33.120	38.000	35.560	0.39
042 23 2-4650	Regular block, no tooled joints, hollow , non - reinforced, 200 mm x 400 mm x 250 mm thick					52.00	13.00	29.600	34.000	31.800	0.43
42 232-5050	Regular concrete block, solid, not reinforced, 200 mm x 400 mm x 100 mm thick					52.00	13.00	42.100	48.000	45.050	0.30
42 232-5100	Regular concrete block, solid, not reinforced, 200 mm x 400 mm x 150 mm thick					52.00	13.00	37.280	43.000	40.140	0.34
042 232-5150	Regular concrete block, solid, not reinforced, 200 mm x 400 mm x 200 mm thick					52.00	13.00	31.470	36.000	33.735	0.41
42 232-5200	Regular concrete block, solid, not reinforced, 200 mm x 400 mm x 300 mm thick					52.00	13.00	24.150	28.000	26.075	0.53
042 232-5500	Regular concrete block, solid, reinforced, 200 mm x 400 mm x 100 mm thick					52.00	13.00	36.220	42.000	39,110	0.35
042 232-5550	Regular concrete block, solid, reinforced, 200 mm x 400 mm x 150 mm thick					52.00	13.00	32.060	37.000	34.530	0.40
042 232-5600	Regular concrete block, solid, reinforced, 200 mm x 400 mm x 200 mm thick	+			S	52.00	13.00	27.070	31.000	29.035	0.480
042 240	CONCRETE SCREEN BLOCK: Including Scaffolding										-
042 240-0200	Concrete Screen Block, 200 mm x 400 mm, 100 mm thick	SO	DM	0.250 Foremen 4,000 Bricklayer 2,000 Bricklayer 0.250 Equip. Op 0.250 Mixer 0.70 0.500 Power To 0.125 Crane 0.125 Fork Lift 0.125 Truck 0.500 Hodcarrie	Helpers erator s m3 ois	52.00	13.00	31.180	36.000	33.590	0.417
042 240-0300	Concrete Screen Block, 200 mm x 400 mm, 200 mm thick					52.00	13.00	24.624	28.000	26.312	0.528
042 240-0500	Concrete Screen Block, 190 mm x 190 mm, 190 mm thick	1			,	52.00	13.00	20.064	23.000	21.532	0.648
042 248	GLAZED CONCRETE BLOCK :										
042 248-0200	Glazed Concrete Block, Single face, 200 mm x 400 mm units, 100 mm thick,no reinforcing	sq	м	0.250 Foreman 4.000 Bricklayer 2.000 Bricklayer 0.250 Equip. Op 0.250 Mixer 0.28 0.500 Power To 0.125 Crane 0.125 Fork Lift 0.125 Truck 0.500 Hodgarrie	Helpers erator s m3 ois	52.00	13.00	36.560	42.000	39.280	0.356
042 248-0250	Glazed Concrete Block, Single face, 200 mm x 400 mm units, 150 mm thick,no reinforcing					52.00	13.00	32,370	37.000	34.685	0.402
042 248-0300	Glazed Concrete Block. Single face, 200 mm x 400 mm units, 200 mm thick,no reinforcing					52.00	13.00	27.330	31.000	29.165	0.476
042 248-0700	Glazed Concrete Block, Double face, 200 mm x 400 mm units, 100 mm thick ,no reinforcing					52.00	13.00	31.020	36.000	33.510	0.419
042 248-0750	Glazed Concrete Block, Double face, 200 mm x 400 mm units, 150 mm thick,no					52.00	13.00	27.470	32.000	29.735	0.473
042 248-0800	reinforcing Glazed Concrete Block, Double face, 200 mm x 400 mm units, 200 mm thick,no	1				52.00	13.00	23.180	27.000	25.090	0.561
042 248-1050	reinforcing Glazed Concrete Block for Jambs, bulinose or square, single, face, 200 mm x 400 mm,	E	Α.			52.00	13.00	330.000	380.000	355.000	0.039
042 248-1250	100 mm thick,no reinforcing Glazed Concrete Block for Caps, bullnose or square, 200 mm x 400 mm,100 mm thick,no reinforcing	LA	м	0.250 Foreman 4.000 Bricklayer 2.000 Bricklayer 0.250 Equip. Op 0.250 Mixer 0.28 0.500 Power To 0.125 Crane 0.125 Fork Lift 0.125 Truck 0.500 Hodcarrie	Helpers erator i m3 ols	52.00	13.00	132.000	152.000	142.000	0.098
042 248-1550	Glazed Concrete Block for Cove base, 200 mm x 400 mm, 100 mm thick,no reinforcing					52.00	13.00	99.000	114.000	106.500	0.131
042 248-1600	Glazed Concrete Block for Cove base, 200 mm x 400 mm, 150mm thick,no reinforcing					52.00	13.00	88.000	101.000	94.500	0.148
042 248-1650	Glazed Concrete Block for Cove base, 200 mm x 400 mm, 200 mm thick,no reinforcing				0	52.00	13.00	74,000	85.000	79.500	0.176
042 252	INSULATION See also division 0	772-	108	3							
042 252-0200	Insulation, inserts, styrofoam, plant installed, for block units size 200 mm x 400 mm, 150	so	M	1 Bricklayer		8.00	0.00	80.000	92.000	86,000	0.000
	mm thick insulation, inserts, styrotoam, plant installed, for block units size 200 mm x 400 mm, 200	1				8.00	0.00	70.000	81.000	75.500	0.000
042 252-0250	mm thick	-	_	10			Andre I		-101100000	- SOMOVICO	10021000
042 252-0300	Insulation, inserts, styrofoam, plant installed, for block units size 200 mm x 400 mm, 250 mm thick					8.00	0.00	60.000	69.000	64.500	0.000
042 252-0500	Insulation, inserts, styrofoam, plant installed, for block units size 200 mm x 200 mm, 200 mm thick				10 H	8.00	0.00	60.000	69.000	64.500	0.000
042 252-1000	Perlite insulation fill in block cores, site mix, 200 mm x 400 mm x 100 mm blocks			1 Bricklayer 1 Bricklayer Help	Øf	16.00	0.00	180.000	207.000	193.500	0.000
042 252-1500	Perlite insulation fill in block cores, site mix, 200 mm x 400 mm x 150 mm blocks				THE STATE OF THE S	16.00	0.00	150.000	173.000	161.500	0.000
42 252-1800	Perlite insulation fill in block cores, site mix, 200 mm x 400 mm x 200 mm blocks				22072	16.00	0.00	125.000	144.000	134.500	0.000
042 260	REINFORCING: See division 041	-512	2				1				
							7			-	

CODE STRUCTURE HOURS COURTS C							
1.42 20.4 20.000 20.000 20.0000 20.0000 20.0000 20.00000 20.00000 20.00000 20.00000 20.000000 20.0000000 20.0000000 20.00000000 20.0000000000		4 10000	CREW EQUIP.	. MIN	D. O. MAX	D. O. AVRG	AVRG. E.H.
Contracte Book Board Beamulgitaeright, not renforcement/or grout, regular book 200 mm 1,000 mm	.00 93,3	13.00	13.00				
Accordance Concrete Book Book Beam, springer, no reinforcement, no grout, regular book 200 mm 1.42 00 13.00	.00 71.39	0	13.00	71.390	82.000	76.695	0.18
13.00 20.0	.00 98.69	Ĝ	13.00	98.690	113.000	105.845	0.13
Accordance Block Book Seam, including good and 2 x 20 bars reinforcing regular block 200	.00 55.39	8	13.00	55.390	64,000	59,695	0.23
042 310 CONCRETE BLOCK, EXTERIOR: Reinforced, tooled joints 2 sides styrofoam inserts	.00 43.80		13.00	43.800	50.000	46.900	0.29
1942 310 CONCRETE BLOCK, EXTERIOR: Reinforced, tooled joints 2 sides styrofoam inserts	00 58.95		13.00	58.950	68.000	12801	0.22
Edition concrete Regular block, reinforced-booled joints 2 sides & styrofoam insents 200 12.000 inschiper Regular block, reinforced-booled joints 2 sides & styrofoam insents 200 12.000 inschiper Regular block, reinforced-booled joints 2 sides & styrofoam insents 200 12.000 inschiper Regular block, reinforced-booled joints 2 sides & styrofoam insents 200 12.000 inschiper Regular block, reinforced-booled joints 2 sides & styrofoam insents 200 12.000 inschiper Regular block, reinforced-booled joints 2 sides & styrofoam insents 200 12.000 inschiper Regular block, reinforced-booled joints 2 sides & styrofoam insents 200 12.000 inschiper Regular block, reinforced-booled joints 2 sides & styrofoam insents 200 12.000 inschiper Regular block, reinforced-booled joints 2 sides & styrofoam insents 200 12.000 inschiper Regular block, reinforced-booled joints 2 sides & styrofoam insents 200 12.000 inschiper Regular block, reinforced-booled joints 2 sides & styrofoam insents 200 12.000 inschiper Regular block, reinforced-booled joints 2 sides & styrofoam insents 200 12.000 inschiper Regular block, reinforced-booled joints 2 sides & styrofoam insents 200 12.000 inschiper Regular block, reinforced-booled joints 2 sides & styrofoam insents 200 12.000 inschiper Regular block, reinforced-booled joints 2 sides & styrofoam insents 200 12.000 inschiper Regular block, reinforced-booled joints 2 sides & styrofoam insents 200 12.000 inschiper Regular block, reinforced-booled joints 2 sides & styrofoam insents 200 12.000 inschiper Regular block, reinforced-booled joints 2 sides & styrofoam insents 200 12.000 inschiper Regular block, reinforced-booled joints 2 sides & styrofoam insents 200 12.000 inschiper Regular block, reinforced-booled joints 2 sides & styrofoam insents 200 12.000 inschiper Regular block, reinforced-booled joints 2 sides & styrofoam insents 200 12.000 inschiper Regular block, reinforced-booled joints 2 sides & styrofoam insents 200 insents 200 insents 200 insents 200 insents					00.000	00.410	U.E.E.
142 310-0200	00 31.34		13.00	31.340	36.000	33.670	0.415
	00 26.45	95	13.00	26.450	30.000	28.225	0.491
	00 23.64		13.00	23.640		38463	0.550
0.42 325-0200 0.42 325-020	De Nove	-	- Charter	34.570	Value to the		0.376
13.00 13.0			Total Section 1	29.180	THE SALE AND THE	- Color Color	DODE:
CONCRETE BLOCK HIGH STRENGTH: Including Scaffolding Concrete Block, High Strength, Holkow, reinforced, 200 mm x 400 mm units, 20 885 kPa, 100 mm thick S2,00 13 00 Concrete Block, High Strength, Holkow, reinforced, 200 mm x 400 mm units, 20 885 kPa, 150 mm thick S2,00 13 00 Concrete Block, High Strength, Holkow, reinforced, 200 mm x 400 mm units, 20 685 kPa, 200 mm thick S2,00 13 00 Concrete Block, High Strength, Holkow, reinforced, 200 mm x 400 mm units, 20 685 kPa, 200 mm thick S2,00 13 00 Concrete Block, High Strength, Holkow, reinforced, 200 mm x 400 mm units, 20 685 kPa, 200 mm thick S2,00 13 00 Concrete Block, High Strength, Holkow, reinforced, 200 mm x 400 mm units, 20 685 kPa, 200 mm thick S2,00 13 00 Concrete Block, High Strength, Holkow, reinforced, 200 mm x 400 mm units, 34 475 kPa, 100 mm thick S2,00 13 00 Concrete Block, High Strength, Holkow, reinforced, 200 mm x 400 mm units, 34 475 kPa, 100 mm thick S2,00 13 00 Concrete Block, High Strength, Holkow, reinforced, 200 mm x 400 mm units, 34 475 kPa, 100 mm thick S2,00 13 00 Concrete Block, High Strength, Holkow, reinforced, 200 mm x 400 mm units, 34 475 kPa, 100 mm thick S2,00 13 00 Concrete Block, High Strength, Holkow, reinforced, 200 mm x 400 mm units, 34 475 kPa, 100 mm thick S2,00 13 00 Concrete Block, High Strength, Holkow, reinforced, 200 mm x 400 mm units, 34 475 kPa, 100 mm thick S2,00 13 00 Concrete Block, Lintles, including grout and reinforcing, 200 mm x 200 mm x 200 mm, 1x S2,00 mm thick S2,00 13 00 S2,00 mm thick S2,00 S2,00 mm t	Carlo Santaga		100000	0.000000	200000000	10.00000	0.446
0.250 Foreman 0.250 Forema	00 22.40		13.00	22.400	26.000	24.200	0.580
13.00 13.0	37.17	-1	13.00	37.170	43.000	40.085	0.350
0.250 Foreman 0.050 Forema	00 32.91	1	13.00	32.910	38.000	35.455	0.395
100 mm thick 52.00 13.00	27,780	1	13.00	27.780	32.000	29.890	0.468
150 mm thick	37.170	33	13.00	37.170	43.000	40.085	0.350
13.00 13.0	32.910	10	13,00	32.910	38.000	35.455	0.395
Concrete Block, Lintels, including grout and reinforcing, 200 mm x 200 mm, 1x O42 330-0200 Concrete Block, Lintels, including grout and reinforcing, 200 mm x 200 mm, 1x O42 330-0250 Concrete Block, Lintels, including grout and reinforcing, 200 mm x 200 mm, 2 A2 330-0250 Concrete Block, Lintels, including grout and reinforcing, 200 mm x 200 mm, 2 A30 0400 Concrete Block, Lintels, including grout and reinforcing, 200 mm x 200 mm, 2 A30 0400 Concrete Block, Lintels, including grout and reinforcing, 200 mm x 400 mm, 2 A30 0400 Concrete Block, Lintels, including grout and reinforcing, 200 mm x 400 mm, 200 mm, 2 A30 0400 Concrete Block, Lintels, including grout and reinforcing, 200 mm x 400 mm, 200 mm, 2 A30 0400 Concrete Block, Lintels, including grout and reinforcing, 200 mm x 400 mm, 200 mm, 2 A30 0400 Concrete Block, Lintels, including grout and reinforcing, 200 mm x 400 mm, 200 mm, 2 A30 0400 Concrete Block, Lintels, including grout and reinforcing, 200 mm x 400 mm x 200 mm, 2 A30 0400 Concrete Block, Lintels, including grout and reinforcing, 200 mm x 400 mm x 200 mm, 2 Concrete Block, Lintels, including grout and reinforcing, 200 mm x 400 mm x 200 mm, 2 A30 0400 Concrete Block, Lintels, including grout and reinforcing, 200 mm x 200 mm, 2 Concrete Block, Lintels, including grout and reinforcing, 200 mm x 200 mm, 2 Concrete Block, Lintels, including grout and reinforcing, 200 mm x 200 mm, 2 A30 0400 Concrete Block, Lintels, including grout and reinforcing, 200 mm x 200 mm, 2 Concrete Block, Lintels, including grout and reinforcing, 200 mm x 200 mm, 2 Concrete Block, Lintels, including grout and reinforcing, 200 mm x 200 mm, 200 mm, 2 Concrete Block, Lintels, including grout and reinforcing, 200 mm x 200 mm, 2 Concrete Block, Lintels, including grout and reinforcing, 200 mm x 200 mm, 2 Concrete Block, Lintels, including grout and reinforcing, 200 mm x 200 mm, 2 Concrete Block, Lintels, including grout and reinforcing, 200 mm x 200 mm, 2 Concrete Block, Lintels, including grout a	0 27.780	1	13.00	27.780	32.000	29.890	0.468
A 0.000 Bricklayers 2.000 Bricklayers 2.	-						
13.00 142.330-0250 Concrete Block, Lintels, including grout and reinforcing, 200 mm x 200 mm, 2	0 91.890	13	13.00	91.890	106.000	98.945	0.141
42 330-0400 Concrete Block, Lintels, including grout and reinforcing. 200 mm x 400 mm x 200 mm, 1x10 mm bar 52.00 13.00 42 330-0450 Concrete Block, Lintels, including grout and reinforcing. 200 mm x 400 mm x 200 mm, 2 x10 mm bar 52.00 13.00 42 330-0450 Concrete Block, Lintels, including grout and reinforcing. 200 mm x 200 mm, 2 x10 mm bar 52.00 13.00	0 85.150	13	13.00	85.150	98.000	91.575	0.153
42 330-0450 Concrete Block, Lintels, including grout and reinforcing, 200 mm x 400 mm x 200 mm, 2	68.100	13	13.00	68.100	78.000	73 050	D 191
230-1000 Concrete Block, Unitels, including grout and reinforcing, 300 mm x 200 mm x 200 mm, 1x10				64.520	74.000	ge jait.	1123
TAXIBLE PARTY OF THE PARTY OF T	20104855	-	13.00	2010/06/2019	79.0001	74.01	
mm bar 42 330-1150 Concrete Block, Lintels, including grout and reinforcing, 300 mm x 200 mm, 200 mm, 13 00 mm	O. D. SHATE	1 18	9870.0	25942.003	69.000	64.460	
2x16 mm bar 2x16 mm bar 42 330-1200 Concrete Block. Lintels, including grout and reinforcing, 300 mm x 200 mm, 2x20 52.00 13.00		_	- 5392	54.310	62.000	58 155	0.217



CODE	ITEM DESCRIPTION	UNIT		REW CTURE	CREW	CREW EQUIP.	D. O. MIN	D. O. MAX	D. O. AVRG	AVRG.
042 330-1600	Concrete Block, Lintels, including grout and reinforcing, 300 mm x 400mm x 200 mm, 2x10 mm bar	I	Ι.		52.00	13.00	67.460	78.000	72.730	0.11
042 335	CONCRETE BLOCK COLUMN				///					
042 335-0160	Concrete block column or pilaster, including reinforcement & grout, size 400 mm x 400 mm, block size 400 x 200 x 200 mm	LM	0.250 Labor for 0.250 Eqp. ope 4.000 Break lay 2.000 Helpers 2.000 Brock laye 0.375 Mixing mu 2.000 Power to 0.125 Crane 0.125 Fruikit 0.125 Truck 0.375 Groutpur 1.000 Hodcarne	rator ers ir helipers c .28 m3	52.00	33.00	11.550	13.000	12.275	2.85
042 335-0170	Concrete block column or pilaster, including reinforcement & grout, size 400 mm x 500 mm, block size 400 x 200 x 200 mm				52.00	33.00	10.280	12.000	11.140	3.21
042 335-0180	Concrete block column or pilaster, including reinforcement & grout.				52.00	33 00	9.470	11.000	10.235	3.48
042 335-0190	size 500 mm x 500 mm. block size 400 x 200 x 200 mm. Concrete block column or pilaster, including reinforcement & grout,	1			52.00	33.00	8.260	9.000	8.630	3.99
	size 600 mm x 600 mm. block size 400 x 200 x 200 mm		(3)	•		1		0.000	0.000	0.00
042 500 042 550	MASONRY VENEER — s(2)								-	
042 554	BRICK VENEER:					-		-		
cool dues nave	Brick Veneer, Standard 100 mm x 71 mm x 240 mm, running bond, V - Tooled joints	SOM	0.250 Foreman 0.250 Equip. Op 3.000 Bricklayer 2.000 Helpers 0.125 Mixer 0.21 1.000 Power To 0.500 Hodcarte	i m3	44.00	13.00	16.198	19.000	17.599	0.803
042 554-0100	Brick Veneer, Standard 100 mm x 71 mm x 240 mm, Full header every 6th course				44.00	13.00	13.538	16.000	14.769	0.960
042 554-0700	Brick Veneer, Glazed face, 100 mm x 71 mm x 240 mm, running bond			V = 355.72	44.00	13.00	14.982	17.000	15.991	0.868
042 554-0750	Brick Veneer, Glazed tace, 100 mm x 71 mm x 240 mm, Full header every 6th course				44.00	13.00	12.521	14.000	13.261	1.038
042 554-1000	Brick Veneer, Jumbo, 150 mm x 100 mm x 300 mm,running bond			(A.C.)	44.00	13.00	23.484	27.000	25.242	0.554
042 554-1050	Brick Veneer, Economy, 100 mm x 100 mm x 200 mm,running bond				44.00	13.00	19.637	23.000	21,318	0.662
042 554-1500	Brick Veneer, standard, For curved walls, running bond, 100 x 71 x 240 mm bricks, V - Tooled joints.				44.00	13,00	11.334	13.000	12.167	1.147
042 554-1510	Brick Veneer, standard, For curved walls, full header every 6th course, 100 x 71 x 240 mm	\top			44.00	13.00	10.289	12,000	11,144	1.264
042 554-1520	Brick Venner digrad too. For a good walk, full boods, such 6th source, 100 x 71 x 240	+			44.00	13.00	9.519	11,000	10,260	1.366
	mm bricks, V - Tooled joints.	+			44.00	13.00	9.518	11.000	10.200	1.300
042 700	GLASS UNIT MASONRY	-							-	_
042 704	GLASS BLOCK:		0.250 Foreman			-	-		-	
042 704-0100	Glass Block, 100 mm thick, plain, 150 mm x 150 mm block, under 100 m ²	SQM	3.000 Bricklayer 2.000 Bricklayer 0.125 Mixer 1.000 Hodcame	Helpers	42:00	9.00	7.960	9.000	8.480	1.131
042 704-0150	Glass Block, 100 mm thick, plain, 200 mm x 200 mm block, under 100 m ²				42.00	9.00	10.750	12.000	11.375	0.837
042 704-0200	Glass Block, 100 mm thick, plain, 300 mm x 300 mm block, under 100 m ²				42.00	9.00	12.370	14.000	13.185	0.728
and the second state with	Glass Block, plain, 100 mm thick, 150 mm x 150 mm block, 100 to 500 m ²				42.00	9.00	9.150	11.000	10.075	0.984
and a series of a second series of	Glass Block, plain, 100 mm thick, 200 mm x 200 mm block, 100 to 500 m ²				42.00	9.00	12.360	14.000	13.180	0.728
042 704-0350					_	1000000	9.950	11.000	10.475	0.905
CANCEL STATE AND REAL STATE	Glass Block, plain, 100 mm thick, 150 mm x 150 mm block, over 500 m ²				42.00	9.00	2,000,000			0.070
042 704-0500	Glass Block, plain, 100 mm thick, 150 mm x 150 mm block, over 500 m ² Glass Block, plain, 100 mm thick, 200 mm x 200 mm block, over 500 m ²	+			42.00 42.00	9.00	13.440	15.000	14.220	0.670
042 704-0500 042 704-0550		SQM	0.250 Foreman 3.000 Bricklayer 2.000 Bricklayer 0.125 Mixer 1.000 Hodcarrier	Helpers		51000	0.=32TH AVC	15.000	11.375	
042 704-0500 042 704-0550 042 704-0800	Glass Block, plain, 100 mm thick, 200 mm x 200 mm block, over 500 m ²	SQM	3.000 Bricklayer 2.000 Bricklayer 0.125 Mixer	Helpers	42.00	9.00	13.440			0.837
042 704-0500 042 704-0550 042 704-0800 042 704-0850	Glass Block, plain, 100 mm thick, 200 mm x 200 mm block, over 500 m ² Glass Block, solar reflective, 100 mm x 200 mm blocks, under 100 m ²	SQM	3.000 Bricklayer 2.000 Bricklayer 0.125 Mixer	Helpers	42.00 42.00	9.00	13.440	12.000	11.375	0.837
042 704-0500 042 704-0550 042 704-0800 042 704-0850 042 704-1000	Glass Block, plain, 100 mm thick, 200 mm x 200 mm block, over 500 m ² Glass Block, solar reflective, 100 mm x 200 mm blocks, under 100 m ² Glass Block, solar reflective, 100 mm x 200 mm blocks, over 500 m ²	SQM	3.000 Bricklayer 2.000 Bricklayer 0.125 Mixer	Helpers	42.00 42.00 42.00	9.00	13.440 10.750 13.440	12.000	11.375	0.837
042 704-0500 042 704-0550 042 704-0800 042 704-0850 042 704-1000 042 704-1050	Glass Block, plain, 100 mm thick, 200 mm x 200 mm block, over 500 m ² Glass Block, solar reflective, 100 mm x 200 mm blocks, under 100 m ² Glass Block, solar reflective, 100 mm x 200 mm blocks, over 500 m ² Glass Block, 79 mm thick thinline, plain, 150 mm x 150 mm block, under 100 m ²	SQM	3.000 Bricklayer 2.000 Bricklayer 0.125 Mixer	Helpers	42.00 42.00 42.00 42.00	9.00 9.00 9.00 9.00	13.440 10.750 13.440 7.960	12.000 15.000 9.000	11.375 14.220 8.480	0.837 0.670 1.131 0.837
042 704-0500 042 704-0550 042 704-0800 042 704-0850 042 704-1000 042 704-1050 042 704-1200	Glass Block, plain, 100 mm thick, 200 mm x 200 mm block, over 500 m ² Glass Block, solar reflective, 100 mm x 200 mm blocks, under 100 m ² Glass Block, solar reflective, 100 mm x 200 mm blocks, over 500 m ² Glass Block, 79 mm thick thinline, plain, 150 mm x 150 mm block, under 100 m ² Glass Block, 79 mm thick thinline, plain, 200 mm x 200 mm block, under 100 m ²	SQM	3.000 Bricklayer 2.000 Bricklayer 0.125 Mixer	Helpers	42.00 42.00 42.00 42.00 42.00	9.00 9.00 9.00 9.00	13.440 10.750 13.440 7.960 10.750	12.000 15.000 9.000 12.000	11.375 14.220 8.480 11.375	0.837 0.670 1.131 0.837 0.905
042 704-0500 042 704-0550 042 704-0800 042 704-0850 042 704-1000 042 704-1200 042 704-1200 042 704-1250	Glass Block, plain, 100 mm thick, 200 mm x 200 mm block, over 500 m ² Glass Block, solar reflective, 100 mm x 200 mm blocks, under 100 m ² Glass Block, solar reflective, 100 mm x 200 mm blocks, over 500 m ² Glass Block, 79 mm thick thinline, plain, 150 mm x 150 mm block, under 100 m ² Glass Block, 79 mm thick thinline, plain, 150 mm x 200 mm block, under 100 m ² Glass Block, 79 mm thick thinline, plain, 150 mm x 150 mm block, over 500 m ²	SQM	3.000 Bricklayer 2.000 Bricklayer 0.125 Mixer	Helpers	42.00 42.00 42.00 42.00 42.00 42.00	9.00 9.00 9.00 9.00 9.00	13.440 10.750 13.440 7.960 10.750 9.950	12.000 15.000 9.000 12.000 11.000	11.375 14.220 8.480 11.375 10.475	
042 704-0500 042 704-0500 042 704-0800 042 704-0850 042 704-1000 042 704-1200 042 704-1250 042 704-1400	Glass Block, plain, 100 mm thick, 200 mm x 200 mm block, over 500 m ² Glass Block, solar reflective, 100 mm x 200 mm blocks, under 100 m ² Glass Block, solar reflective, 100 mm x 200 mm blocks, over 500 m ² Glass Block, 79 mm thick thinline, plain, 150 mm x 150 mm block, under 100 m ² Glass Block, 79 mm thick thinline, plain, 200 mm x 200 mm block, under 100 m ² Glass Block, 79 mm thick thinline, plain, 200 mm x 150 mm block, over 500 m ² Glass Block, 79 mm thick thinline, plain, 200 mm x 200 mm block, over 500 m ²	SQM	3.000 Bricklayer 2.000 Bricklayer 0.125 Mixer	Helpers	42.00 42.00 42.00 42.00 42.00 42.00	9.00 9.00 9.00 9.00 9.00 9.00	13.440 10.750 13.440 7.960 10.750 9.950 13.440	12.000 15.000 9.000 12.000 11.000	11.375 14.220 8.480 11.375 10.475 14.220	0.837 0.670 1.131 0.837 0.905
042 704-0500 042 704-0550 042 704-0800 042 704-0850 042 704-1000 042 704-1200 042 704-1200 042 704-1400 042 704-1400 042 704-1400	Glass Block, plain, 100 mm thick, 200 mm x 200 mm block, over 500 m ² Glass Block, solar reflective, 100 mm x 200 mm blocks, under 100 m ² Glass Block, solar reflective, 100 mm x 200 mm blocks, over 500 m ² Glass Block, 79 mm thick thinline, plain, 150 mm x 150 mm block, under 100 m ² Glass Block, 79 mm thick thinline, plain, 150 mm x 150 mm block, over 500 m ² Glass Block, 79 mm thick thinline, plain, 200 mm x 200 mm block, over 500 m ² Glass Block, 79 mm thick thinline, plain, 200 mm x 200 mm block, over 500 m ² Glass Block, for cleaning block after installation (both sides), add	SOM	3.000 Bricklayer 2.000 Bricklayer 0.125 Mixer	Helpers	42.00 42.00 42.00 42.00 42.00 42.00	9.00 9.00 9.00 9.00 9.00 9.00	13.440 10.750 13.440 7.960 10.750 9.950 13.440	12.000 15.000 9.000 12.000 11.000	11.375 14.220 8.480 11.375 10.475 14.220	0.837 0.670 1.131 0.837 0.905 0.670 0.120
042 704-0500 042 704-0550 042 704-0800 042 704-0850 042 704-1000 042 704-1050 042 704-1200 042 704-1400 042 704-1400 042 900	Glass Block, plain, 100 mm thick, 200 mm x 200 mm block, over 500 m ² Glass Block, solar reflective, 100 mm x 200 mm blocks, under 100 m ² Glass Block, solar reflective, 100 mm x 200 mm blocks, over 500 m ² Glass Block, 79 mm thick thinline, plain, 150 mm x 150 mm block, under 100 m ² Glass Block, 79 mm thick thinline, plain, 200 mm x 200 mm block, under 100 m ² Glass Block, 79 mm thick thinline, plain, 200 mm x 150 mm block, over 500 m ² Glass Block, 79 mm thick thinline, plain, 200 mm x 200 mm block, over 500 m ² Glass Block, for cleaning block after installation (both sides), add ADOBE MASONRY		3 000 Bricklayer 2 000 Bricklayer 1 125 Mass 1 000 Hodcarrier 2 000 Hodcarrier 2 000 Bricklayer 2 000 Bricklayer 2 000 Helpers 1 125 Meyer 0 26	Helpers	42.00 42.00 42.00 42.00 42.00 42.00 42.00	9.00 9.00 9.00 9.00 9.00 9.00 9.00	13.440 10.750 13.440 7.960 10.750 9.950 13.440 75.000	12.000 15.000 9.000 12.000 11.000 15.000 86.000	11.375 14.220 8.480 11.375 10.475 14.220 80.500	0.837 0.670 1.131 0.837 0.905
042 704-0500 042 704-0550 042 704-0800 042 704-0850 042 704-1000 042 704-1200 042 704-1400 042 704-1400 042 900-0080	Glass Block, plain, 100 mm thick, 200 mm x 200 mm block, over 500 m ² Glass Block, solar reflective, 100 mm x 200 mm blocks, under 100 m ² Glass Block, solar reflective, 100 mm x 200 mm blocks, over 500 m ² Glass Block, 79 mm thick thinline, plain, 150 mm x 150 mm block, under 100 m ² Glass Block, 79 mm thick thinline, plain, 200 mm x 200 mm block, under 100 m ² Glass Block, 79 mm thick thinline, plain, 150 mm x 150 mm block, over 500 m ² Glass Block, 79 mm thick thinline, plain, 200 mm x 200 mm block, over 500 m ² Glass Block, 79 mm thick thinline, plain, 200 mm x 200 mm block, over 500 m ² Glass Block, for cleaning block after installation (both sides), add ADOBE MASONRY Adobe blocks,including adobe morter,100 mm x 100 mm x 200 mm.		3 000 Bricklayer 2 000 Bricklayer 1 125 Mass 1 000 Hodcarrier 2 000 Hodcarrier 2 000 Bricklayer 2 000 Bricklayer 2 000 Helpers 1 125 Meyer 0 26	Helpers	42.00 42.00 42.00 42.00 42.00 42.00 42.00	9.00 9.00 9.00 9.00 9.00 9.00 9.00	13.440 10.750 13.440 7.960 10.750 9.950 13.440 75.000	12.000 15.000 9.000 12.000 11.000 15.000 86.000	11.375 14.220 8.480 11.375 10.475 14.220 80.500	0.837 0.670 1.131 0.837 0.905 0.670 0.120
042 704-0500 042 704-0500 042 704-0800 042 704-0850 042 704-1000 042 704-1200 042 704-1200 042 704-1400 042 900-0080 042 900-0100 042 900-0140	Glass Block, plain, 100 mm thick, 200 mm x 200 mm block, over 500 m² Glass Block, solar reflective, 100 mm x 200 mm blocks, under 100 m² Glass Block, solar reflective, 100 mm x 200 mm blocks, over 500 m² Glass Block, 79 mm thick thinline, plain, 150 mm x 150 mm block, under 100 m² Glass Block, 79 mm thick thinline, plain, 200 mm x 200 mm block, under 100 m² Glass Block, 79 mm thick thinline, plain, 150 mm x 150 mm block, over 500 m² Glass Block, 79 mm thick thinline, plain, 200 mm x 200 mm block, over 500 m² Glass Block, 79 mm thick thinline, plain, 200 mm x 200 mm block, over 500 m² Glass Block, 79 mm thick thinline, plain, 200 mm x 150 mm block, over 500 m² Adobe blocks, including adobe morter, 100 mm x 100 mm x 200 mm.		3 000 Bricklayer 2 000 Bricklayer 1 125 Mass 1 000 Hodcarrier 2 000 Hodcarrier 2 000 Bricklayer 2 000 Bricklayer 2 000 Helpers 1 125 Meyer 0 26	Helpers	42.00 42.00 42.00 42.00 42.00 42.00 42.00 42.00	9.00 9.00 9.00 9.00 9.00 9.00 9.00	13.440 10.750 13.440 7.960 10.750 9.950 13.440 75.000 27.310	12.000 15.000 9.000 12.000 11.000 15.000 86.000 31.000	11.375 14.220 8.480 11.375 10.475 14.220 80.500 29.155	0.837 0.670 1.131 0.837 0.905 0.670 0.120

CSI	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	CREW		D. O. MIN	D. O. MAX	D. O. AVRG	AVRG.
CODE	ALL HELDER (TANK) OF STROME (MILE)		0.25 Bricklayer Foreman	noons	EQUIP.	MIIN	MAX	AVHG	E.n.
044 104-0100	Rough Stone Wall, dry, Random fieldstone, under 500 mm thick	CU.M	1.00 Bricklayer 2.00 Bricklayer Helicers 0.50 Equip. Operator 0.50 Fortlift For Handling	30.00	4.00	1.800	2.000	1.900	2.22
044 104-0150	Rough Stone Wall, dry. Random fieldstone, over 500 mm thick			30.00	4.00	2.000	3.000	2.500	2.000
044 200	CUT STONE							II. V. 39	
044 204	BLUESTONE:				To Bellevie				
344 201-0500	Bluestone.cut to size sits, natural cieft, 250 mm wide to 1.8 m long, 40 mm thick	LM	0.25 Bricklayer Foreman 1 Bricklayer 1 Bricklayer Helper	18.00	0,00	21.000	24.000	22.500	0.000
44 201-0550	Bluestone cut to size sills, natural cieft, 250 mm wide to 1.8 m long, 50 mm thick			18.00	0.00	19.000	22.000	20.500	0.00
044 201-1000	Bluestone cut to size stair treads, natural cleft, 310 mm wide to 1.8 m long, 38 mm thick		0.25 Bricklayer Foreman 1.00 Bricklayer 2.00 Bricklayer Helpers 0.50 Equip Operator 0.50 Forlitt For Handling	30.00	4.00	27.000	31.000	29.000	0.148
044 201-1050	Bluestone.cut to size stair treads, natural cleft, 310 mm wide to 1.8 m long, 50 mm thick			30.00	4.00	24.000	28 000	26.000	0.167
044 201-1100	Bluestone.cut to size stair treads, smooth finish, 310 mm wide to 1.8 m long, 38 mm thick			30.00	4.00	27.000	31.000	29.000	0.148
044 500	STONE VENEER			56					
044 504	ASHLAR VENEER:								
044 504-0200	Stone veneer 30 mm + or - thik, random or random rectangular sawn face.split joints, Mortar set including pointing & cleaning, scaffolding not included, average	SQM	0.25 Bricklayer Foreman 4.00 Bricklayer 2.00 Bricklayer Helpers 4.00 Common Laborer 1.00 Equip Operator 0.75 Truck crane 11 ton 0.50 Power Tool 0.125 Mixer 0.28 MB	B2.00	11,00	30.239	35.000	32.619	0.364
044 504-0240	Stone veneer 50 mm + or - thkrandom or random rectangular sawn face.split joints, Mortar set including pointing & cleaning, scaffolding not included, average			82 00	11.00	25.745	30.000	27.873	0.427
044 504-0280	Stone veneer 70 mm + or - thk.,random or random rectangular sawn face,split joints, Mortar set including pointing & cleaning, scaffolding not included, average			82.00	11.00	20.663	24,000	22.331	0.532
044 504-0300	Stone veneer 100 mm + or - thk.,random or random rectangular sawn face, split joints, Mortar set including pointing & cleaning, scaffolding not included, average	Ļ	1	82.00	11.00	15.675	18.000	16.838	0.702
044 504-0700	Precast concrete panel 150 mm overall thickness, stone veneered, 600mmx300mm, 50 mm thick, high rise building more than 10 floor & up 15 floors.	SOM	0.25 Bricklayer Foreman 4.00 Steel Structure Workers 4.00 Bricklayer 2.00 Bricklayer Heipers 0.50 Equip Operator 0.25 Tower crane 75 m hgh 45 m boom, 11 ton tip load 0.25 Truck 1.00 Fower Tool 1.00 Fower Tool	86.00	20.00	13.410	15.000	14.205	1,491
044 504-1000	Precast concrete panel with stone veneer, overall thickness, 200 mm, stone 400 mmx800x50 mm, mechanical installation, high rise building over 15 floors & up to 22 floors.			86.00	14.00	12.420	14.000	13.210	1.127
044 504-2000	Precast concrete panel with granite veneer, overall thickness, 200 mm, Stone 400 mm x 800 x 50 mm, mechanical installation, high rise building over 22 floors & up to 30 floors			86.00	14.00	11.730	13.000	12.365	1.194
044 508	LIGHTWEIGHT NATURAL STONE:						70-77		
044 508-0100	Lightweight natural stone lava type, veneer, rubble face, or sawed face, sawed back, irregular shapes	SQM	0.25 Bricklayer Foreman 4,00 Bricklayer 4,00 Bricklayer Helpers 1,00 Equip Operator 0.75 Truck crane 11 Ion 0.50 Power Tool 0.125 Maser	74.00	11.00	27,100	31.000	29.050	0.406
044 550	MARBLE								
044 554	MARBLE:		N. 7		ANA 11= 16				
144 554-0100	Marble base, polished, 20 mm thick, polished, 150 mm high	LM	0.125 Foreman 3.000 Bricklayers 2.000 Bricklayer Helpers 0.125 Equip Operator 0.500 Power Tool	42.00	5.00	63.000	72.000	67.500	0.079
44 554-0600	Marble facing for Columns, cornices, mouldings, etc., hand or special machine cut, up to	SQM		42.00	5.00	9.000	10.000	9.500	0.556
44 554-1050	4.00 meter high, average Marble facing, polished finish, cut to size, 20 mm to 25 mm thick mechanical installation average			42.00	5.00	12.000	14.000	13.000	0.417
44 554-1300	Marble facing, polished finish, cut to size, 32 mm thick, mechanical installation, average			42.00	5.00	10.500	12.000	11.250	0.476
		-		42.00	5.00	9.000	10.000	9,500	0.556
+4 304-14UU	Marble facing, polished finish, cut to size, 40 mm thick, mechanical installation, average		-	27/18/1	- Sames	30000			
44 554-1500	Marble facing, polished finish, cut to size, 50 mm thick, mechanical installation average			42.00	5.00	8.250	9 (6)	A 625	0.64
	Marble, wall facing, cut to size, 300 x 800 x 40 mm thick Traventine, scaffolding not			42.00	5.00	9.000	10.010	9.507	U 0.1
44 554-1550	included, Average Marble, wall facing, but to size, 300 x 800 x 40 mm thick Traventine,	-		42.00	5.00	8.000	9.000	8.500	0.625

CODE	ITEM DESCRIPTION	UNIT		REW JCTURE	CREW HOURS	CREW EQUIP.	D. O. MIN	D. O. MAX	D. O. AVRG	AVRG. E.H.
044 554-2510	Marble, Flooring, polished tiles, 300 mm x 300 mm x 10 mm,thin set, Average		0.250 Bricklays 3.000 Bricklays 2.000 Bricklays 0.125 Equip. O 0.125 Crare 11 0.500 Power T. 0.500 Hodcarn	er er Helper Operator 28 m3 1 Ton ool	44.00	10.00	20.250	23,000	21.625	0.49
044 554-2700	Marble, Flooring, polished tiles, 300 mm x 300 mm x 10 mm, mortar bed, Average				44,00	10.00	16.500	19.000	17,750	0.60
044 554-2780	Marble, Flooring, polished tiles, 300 mm x 300 mm x 20 mm, Travertine,mortar bed, average				44.00	10:00	15.000	17.000	16.000	0.66
044 554-2800	Marble flooring for patio tile, non-slip, 13 mm thick,mortar bed, flame finish				44.00	10.00	18.000	21.000	19.500	0.55
044 554-2900	Marble partitions for shower or toilet 20 mm thick				44.00	10.00	18.000	21,000	19.500	0.55
044 554-3210	Marble for stair risers 20 mm thick, 150 mm high	LM	0.250 Bricklaye 1.000 Bricklaye 2.000 Bricklaye 1.000 Equip. O 1.000 Truck Cri	er Helper operator	34.00	8.00	19.000	22.000	20.500	0.42
044 554-3360	Marble stair treads, 300 mm wide x 30 mm thick random lengths	Vi.			34.00	8.00	19.000	22.000	20.500	0.42
044 554-3500	Marble for thresholds, 910 mm L, 20 mm thick, 100 mm to 150 mm W, Plain or Beveled	EA			34.00	8.00	19.800	23.000	21.400	0.40
044 554-3700	Marble for window Stools, polished 20 mm thick, 130 mm wide	LM			34.00	8.00	18.000	21.000	19.500	0.44
044 600	LIMESTONE									
044 604	LIMESTONE: See also Ashlar Veneer, Division	044-5	504							
044 604-2020	Limestone, Coping, smooth finish, top & 2 sides, 230 mm x 100 mm x 6 m long.	EA	0.250 Bricklaye 1.000 Bricklaye 2.000 Bricklaye 1.000 Equip O 1.000 Truck Cre	r r Helper perator	34.00	8.00	5.000	6.000	5.500	1.600
044 604-2030	Limestone, Coping, smooth finish, top & 2 sides, 230 mm x 100 mm x 8 m long				34.00	8.00	4.000	5.000	4.500	2.000
044 604-2050	Limestone, Coping, smooth finish, top & 2 sides, 230 mm x 100 mm x 2 m long	\pm	-		34.00	8.00	15.000	17.000	16.000	0.533
TO SHOULD BE	Limestone for steps, extra hard, 356 mm wide, 150 mm rise	LM			34.00	8.00	20.000	23.000	21.500	0.400
044 650	GRANITE:									
044 651	GRANITE:									
044 651-0150	Granite Veener, polished face, 20 mm to 30 mm thick, mechanical installation straight job, average	SQM	0.125 Bricklaye 3.000 Bricklaye 2.000 Bricklaye 0.125 Equip.Op 0.125 Truck Cra 0.500 Power To	r r Helpers per.(crane) sne,11 metric ton	42.00	5.00	10.500	12 000	11.250	0.476
044 651-0300	Granite Veener, polished face, 40 mm to 65 mm thick, mechanical installation average				42.00	5.00	8.250	9.000	8.625	0.606
044 651-0700	Granite Veener, polished face, 65 mm to 100 mm thick, mechanical installation average				42.00	5.00	7.500	9.000	8.250	0.667
044 651-0800	Granite Veener, polished face 20 mm thick to 30 mm thick, mechanical installation for curved wall under 1.5 m, radius.				42.00	5.00	7.350	8.000	7.675	0.680
044 651-0820	County Vennet colleged from 40 mm think to 60 mm think for a construction 1.5				42.00	5.00	5.780	7.000	6.390	0.865
044 651-0840	Granite Veener, polished face 65 mm thick to 100 mm thick, for curved wall under 1.5	_			42.00	5.00	5.250	6.000	5.625	0.952
044 651-D86D	m.radius. Granite veneer, cut to size, 300 mm x 600 mm x 30 mm,mechanical installation.	-	1		42.00	5.00	11.500	13.000	12.250	0.435
International Sections	Granite veneer, cut to size, 400 mm x 400 mm x 30 mm, mechanical installation.	+			42.00	5.00	10.500	12.000	11.250	0.476
		•	0.125 Bricklayer 3.000 Bricklayer				9.200	11.000	10.100	0.543
044 651-0900	Granite veneer, cut to size, 300mm x 300 mm x 30 mm,mechanical installation.	SQM	2.000 Bricklayer 0.125 Equip.Op 0.125 Truck Cra 0.500 Power To	er.(crane) ine,11 metric ton	42.00	5.00				
	Granite veneer, cut to size, 300mm x 300 mm x 30 mm, mechanical installation. Granite veneer, cut to size, 300 mm x 600 mm x 40 mm, mechanical installation.	SQM	2.000 Bricklayer 0.125 Equip.Op 0.125 Truck Cra	er.(crane) ine,11 metric ton	42.00	5.00	9.000	10.000	9.500	0.556
44 651-0920		SQM	2.000 Bricklayer 0.125 Equip.Op 0.125 Truck Cra	er.(crane) ine,11 metric ton				10.000	9.500 9.125	0.556
944 651-0920 944 651-0940	Granite veneer, cut to size, 300 mm x 600 mm x 40 mm, mechanical installation.	SQM	2.000 Bricklayer 0.125 Equip.Op 0.125 Truck Cra	er.(crane) ine,11 metric ton	42.00	5.00	9.000	1/1/2/2/2/2/2/2/2		93400403
044 651-0920 044 651-0940 044 651-0960	Granite veneer, cut to size, 300 mm x 600 mm x 40 mm,mechanical installation. Granite veneer, cut to size, 400 mm x 400 mm x 40 mm,mechanical installation.	SQM	2.000 Bricklayer 0.125 Equip.Op 0.125 Truck Cra	er.(crane) ine,11 metric ton	42.00 42.00	5.00	9.000 8.250	10.000	9.125	0.606
044 651-0920 044 651-0940 044 651-0960 044 651-0980	Granite veneer, cut to size, 300 mm x 600 mm x 40 mm, mechanical installation. Granite veneer, cut to size, 400 mm x 400 mm x 40 mm, mechanical installation. Granite veneer, cut to size, 300 mm x 300 mm x 40 mm, mechanical installation.	SQM	2.000 Bricklayer 0.125 Equip.Op 0.125 Truck Cra	er.(crane) ine,11 metric ton	42.00 42.00 42.00	5.00 5.00	9.000 8.250 7.220	10.000 8.000	9.125 7.610	0.606
044 651-0920 044 651-0940 044 651-0960 044 651-0980	Granite veneer, cut to size, 300 mm x 600 mm x 40 mm,mechanical installation. Granite veneer, cut to size, 400 mm x 400 mm x 40 mm,mechanical installation. Granite veneer, cut to size, 300 mm x 300 mm x 40 mm,mechanical installation. Granite veneer, cut to size, 400 mm x 800 mm x 50 mm,mechanical installation.	SQM	2.000 Bricklayer 0.125 Equip.Op 0.125 Truck Cra	er.(crane) ine,11 metric ton	42.00 42.00 42.00 42.00	5.00 5.00 5.00 5.00	9.000 8.250 7.220 12.380	10.000 8.000 14.000	9.125 7.610 13.190	0.606 0.693 0.404
44 651-0920 44 651-0940 44 651-0960 44 651-0980 44 651-2000 44 651-2000	Granite veneer, cut to size, 300 mm x 600 mm x 40 mm, mechanical installation. Granite veneer, cut to size, 400 mm x 400 mm x 40 mm, mechanical installation. Granite veneer, cut to size, 300 mm x 300 mm x 40 mm, mechanical installation. Granite veneer, cut to size, 400 mm x 800 mm x 50 mm, mechanical installation. Granite veneer, cut to size, 600 mm x 1200 mm x 60 mm, mechanical installation. Granite veneer to high rise building mole (6-10 floors); mechanical installation, 40 to 60 mm thick Granite veneer to high rise building mole (6-10 floors); mechanical installation, 55 to 100	SQM	2.000 Bricklayer 0.125 Equip.Op 0.125 Truck Cra	er.(crane) ine,11 metric ton	42.00 42.00 42.00 42.00 42.00	5.00 5.00 5.00 5.00 5.00	9.000 8.250 7.220 12.380 14.850	10.000 8.000 14.000 17.000	9.125 7.610 13.190 15.925	0.606 0.693 0.404 0.337
044 651-0920 044 651-0940 044 651-0960 044 651-1000 044 651-2000 044 651-2100	Granite veneer, cut to size, 300 mm x 600 mm x 40 mm, mechanical installation. Granite veneer, cut to size, 400 mm x 400 mm x 40 mm, mechanical installation. Granite veneer, cut to size, 300 mm x 300 mm x 40 mm, mechanical installation. Granite veneer, cut to size, 400 mm x 800 mm x 50 mm, mechanical installation. Granite veneer, cut to size, 400 mm x 800 mm x 50 mm, mechanical installation. Granite veneer to high rise building mole (6-10 floors); mechanical installation; 40 to 60 mm thick.	SOM	2.000 Bricklayer 0.125 Equip.Op 0.125 Truck Cra	er (crane) Inne.11 metric ton oil Foreman ture Workers Helpers reator ne.120 m high. 11 ton tip load	42.00 42.00 42.00 42.00 42.00 42.00	5.00 5.00 5.00 5.00 5.00 5.00	9.000 8.250 7.220 12.380 14.850 7.000	10.000 8.000 14.000 17.000 8.000	9.125 7.610 13.190 15.925 7.500	0.606 0.693 0.404 0.337
144 651-0920 144 651-0940 144 651-0960 144 651-0980 144 651-1000 144 651-2000 144 651-2200 144 651-2210	Granite veneer, cut to size, 300 mm x 600 mm x 40 mm, mechanical installation. Granite veneer, cut to size, 400 mm x 400 mm x 40 mm, mechanical installation. Granite veneer, cut to size, 300 mm x 300 mm x 40 mm, mechanical installation. Granite veneer, cut to size, 400 mm x 800 mm x 50 mm, mechanical installation. Granite veneer, cut to size, 600 mm x1200 mm x 60 mm, mechanical installation. Granite veneer to high rise building mole (6-10 floors); mechanical installation; 40 to 60 mm thick. Granite veneer to high rise building mole (6-10 floors); mechanical installation; 65 to 100 mm thick. Precast concrete panel with granite veneer, overall thickness, 200 mm, Granite 400 mm x	SQM	2.000 Bricklayer 0.125 Equip.Op 0.125 Truck Cra 0.500 Power To 0.500 Power To 0.25 Bricklayer F 4.00 Steel Struct 4.00 Bricklayer F 2.00 Bricklayer F 0.50 Equip Ope 0.250 Tower cra 4.5 m boom, 1 0.25 Truck 1.00 Power To	er (crane) ine.11 metric ton oil Foreman ture Workers telipers reator ne.120 m high. 11 ton tip load	42.00 42.00 42.00 42.00 42.00 42.00 42.00	5.00 5.00 5.00 5.00 5.00 5.00 5.00	9.000 8.250 7.220 12.380 14.850 7.000 6.000	10.000 8.000 14.000 17.000 8.000 7.000	9.125 7.610 13.190 15.925 7.500 6.500	0.606 0.693 0.404 0.337 0.714

CSI	ITEM DESCRIPTION	UNIT		CREW	CREW	CREW EQUIP.	D. O. MIN	D. O. MAX	D. O. AVRG	AVRG. E.H.
	Granite Stair riser, 20 mm thick, 150 mm high average	LM	0.250 Bricklay 1.000 Bricklay 2.000 Bricklay 1.000 Equip (1.000 Truck C	ver Helper Operator	34.00	8.00	30.000	35.000	32,500	0.26
044 651-2550	Granite Stair tread, 30 mm thick, 310 mm wide, 1.2 meter long, average	246			34.00	8.00	30.000	35.000	32.500	0.26
044 651-2800	Granite Pavers,100 mm x 100 mm x 100 mm blocks,split face and joints,average	SOM	0.125 Bricklay 3.000 Bricklay 2.000 Bricklay 0.125 Equip (0.125 Mixer 0, 0.125 Crane 1 0.500 Power 0.125 Hodoan	rer Helper Operator 28 m3 1 Ton Tool	42.00	7.00	13.500	16.000	14.750	0.519
044 651-4000	Granite Soffits, 50 mm thick, average				42,00	7.00	6.750	8.000	7.375	1.037
044 651-4200	Granite Soffits 100 mm thick, average				42.00	7.00	6.750	8.000	7.375	1.037
044 651-5000	Granite Flooring,300 mm x 300 mm 20 mm thick, mortar bed, average				42.00	7,00	15.000	17.000	16.000	0,467
	Granite Flooring,300 mm x 300 mm 30 mm thick, mortar bed, average			1	42.00	7.00	13.000	15.000	14.000	0.538
Carrier Control Control	SANDSTONE	-			1					
	SANDSTONE OR BROWNSTONE: Add for so	raffolo	lina		+					
044 704-1000	Sandstone veneer,cut to size, smooth finish, mechanical installation, 200mm x 70 mm x 40 mm		0.125 Bricklaye 3.00 Bricklaye 2.00 Bricklaye 0.125 Equip 0 0.125 Crane 1 0.500 Power 1	r Helper Operator 1 Ton	42.00	5.00	6.750	8.000	7.375	0.741
044 704-1200	Sandstone veneer,cut to size, smooth finish, mechanical installation, 300 mm x 110 mm x 40 mm		-		42:00	5.00	7.430	9.000	8.215	0.673
044 / 04+ 14001	Sandstone veneer,cut to size, smooth finish, mechanical installation, 300 mm x150 mm x				42.00	5.00	8.540	10.000	9.270	0.585
	40 mm Sandstone veneer,cut to size, smooth finish, mechanical installation, 400 mm x 200 mm x				42.00	5.00	9.000	10.000	9.500	0.556
Selfation of the Committee of the Commit	40 mm Sandstone veneer,cut to size, smooth finish, mechanical installation, 400 mm x 250 mm x		-		42.00	5.00	9.900	11,000	10.450	0.505
	40 mm Sandstone veneer,cut to size, smooth finish, mechanical installation, 600 mm x 300 mm x				-					Daniel Control
044 704-2000	20 mm				42.00	5.00	10.500	12.000	11.250	0.476
	Sandstone veneer,cut to size, smooth finish, mechanical installation, 600 mm x 300 mm x 40 mm				42.00	5.00	9.750	11 000	10.375	0.513
044 704-2600	Sandstone veneer,cut to size, smooth finish, mechanical installation, 600 mm x 300 mm x 50 mm	SOM	0.125 Bricklay 3.00 Bricklaye 2.00 Bricklaye 0.125 Equip (0.125 Crane 1 0.500 Power 7	r r Helper Operator 1 Ton	42.00	5.00	9.000	10.000	9.500	0.556
	Sandstone veneer,cut to size, bush hammered, mechanical installation, 600 mm x 300 mm \times 60 mm				42.00	5.00	8.250	10.000	9.125	0.606
044 704-3000	South the same series, cut to size, bush hammered, mechanical installation, 600 mm x 300 mm x 40 mm				42.00	5.00	9.750	11.000	10.375	0.513
	Sandstone veneer, cut to size, bush hammered, mechanical installation, 600 mm x 300 mm x 50 mm				42.00	5.00	9.000	10.000	9.500	0.556
044 704-3400	Sandstone veneer, out to size, bush hammered, mechanical installation, 600 mm x 300 mm x60 mm	SOM	0.125 Bricklay 3.00 Bricklaye 2.00 Bricklaye 0.125 Equip 0 0.125 Crane 1 0.500 Power 1	r r Helper Operator 1 Ton	42.00	5.00	8.250	9.000	8.625	0.606
	MASONRY RESTORATION & CLEANING/REFRACTORIES MASONRY CLEANING									
045 106	CLEAN AND POINT:									
045 106-0010	Clean and point smooth brick	SQM	1 Bricklayer		8.00	0.00	23.000	26.000	24.500	0.000
045 106-0100	Clean and point rough brick				8:00	0.00	20.000	23.000	21.500	0.000
045 108	WASHING BRICK:									
045 108-0010	Washing smooth brick, acid wash	SOM	1 Bricklayer		8.00	0.00	42.000	48.000	45.000	0.000
045 108-0050	Washing rough brick acid wash				8.00	0.00	30.000	35.000	32.500	0.000
045 108-0060	Washing stone, acid wash	1			8.00	0.00	45.000	52.000	48.500	0.000
045 550	FLUE LINERS						10 C C C			
045 554	FLUE LINING:									
	AND THE RESIDENCE OF THE PARTY				-					

Division 5 Metals

Division 5.. Metals..

Estimating Tips:

050 Materials, Coating & Fastenings:

Nuts, bolts, washers, connection angles and plates can add a significant amount to both the tonnage of a structural steel job as well as the estimated cost.

Simple construction consists generally of field bolted connections with lateral bracing supplied by other elements of the building, such as masonry walls or x-bracing. The estimator should be aware, however, that shop connections may be accomplished by welding or bolting.

The method may be particular to the fabrication shop and may have an impact on the estimated cost.

Some other items shall be included when preparing an estimate on structural steel buildings such as extra costs for shapes, drawings, assembling costs like templates and shop painting.

052 Steel Joists: Nestel

In any given project the total weight of open web steel joists is determined by the loads to be supported and the design. However, economies can be realized in minimizing the amount of labor used to place the joists. This is done by maximizing the joists spacing and therefore minimizing the number of joists required to be installed on the job.

التخيين :053 Metal Decking

The take off and estimating of metal deck involves more than simply the area of the floor or roof and the type of deck specified or shown on the drawings. Many different sizes and types of openings may exist. Small openings for individual pipes or conduits may be drilled after the floor/ roof is installed, but larger openings may require special deck lengths as well as reinforcing or structural support.

الصناعات : 055 Metal Fabrications

The most economical steel stairs, pipe railing, window guard, curb angles, floor & trench frames are those that use common materials, standard details and most importantly, a uniform and relatively simple method of field assembly. Risers and treads are usually made by specialty shops, and it is most economical to use a typical

detail in as many places as possible. The stairs should be pre-assembled and shipped directly to the site.

Steel stack costs and labor vary widely with stack height, number of joints and transportation.

CSI	ON 05: METALS	THE REAL PROPERTY.	CB	EW	CREW	CREW	D. O.	D. O.	D. O.	AVRG.
CODE	ITEM DESCRIPTION	UNIT	500000000000	CTURE	HOURS	EQUIP.	MIN.	MAX.	AVRG	E.H.
050	METAL MATERIALS, FINISHES & FASTENINGS			A HARVE	in the last	War Sal		4		地石具
050 500	METAL FASTENING:									
050 510	CURB EDGING:									
050 510-0010	0 Curb Edging St. angle w/anchors, 25 mm x 25 mm, 1.2 kg/m	LW	0.375 Struc Steel 2.000 Steel Fitter 1.000 Steel Welde 1.000 Welding Ma 1.000 Power Tool	r	27	16	80.000	92.000	86.000	0.20
050 510-0100	0 Curb Edging St. angle w/anchors, 50 mm x 50 mm, 5.8 kg/m	+	1.000 FORM 1001		27	16	75.000	86.000	80.500	0.21
050 510-0200	0 Curb Edging St. angle w/anchors, 76 mm x 76 mm, 9.1 kg/m				27	16	70.000	81,000	75.500	0.22
050 510-0300	0 Curb Edging St. angle w/anchors,100 mm x 100 mm, 12.2 kg/m				27	16	60.000	69.000	64.500	0.26
050 510-1000	0 Curb Edging St. angle w/anchors,150 mm x 100 mm, 18.3 kg/m				27	16	55.000	63,000	59.000	0.29
050 510-1050	0 Curb Edging Steel channels with anchors, on forms, 75 mm channel, 7.4 kg/m				27	16	65.000	75,000	70.000	0.24
0.7027010202322	0 Curb Edging Steel channels with anchors, on forms 100 mm channel, 5 kg/m				27	16	60.000	69.000	64.500	0.26
ATT A PARTY OF A PARTY OF	0 Curb Edging Steel channels with anchors, on forms, 150 mm channel, 12 kg/m				27	16	55.000	63.000	59.000	0.29
CONTRACTOR OF THE	0 Curb Edging Steel channels with anchors, on forms, 200 mm channel. 17 kg/m				27	16	50.000	58.000	54.000	0.32
STATE OF THE	0 Curb Edging Steel channels with anchors, on forms, 250 mm channel, 23 kg/m				27	16	45.000	52.000	48.500	0.35
250 510-1500	0 Curb Edging Steel channels with anchors, on forms, 310 mm channel, 31 kg/m				27	16	30.000	35.000	32.500	0.53
	0 Steel channels with anchors, on forms for curved edging 200 mm channel, 17 kg/m				27	16	44.000	51.000	47,500	0.36
051	STRUCTURAL METAL FRAMING			10 6		سني	ana cottonio	- 25.00 000 f	J-14/402-0000	375025
051 100	BRACING	_								
051 108	BRACING:									
		7757	0.250 Steel Foren	ian	-	8	405.000	157 000	1.45 000	0.00
351 108-0300	Bracing Let-in, "T" shaped, 20 ga. galv. steel, studs at 410 mm O.C.	LM	1.000 Steel Fitter 1.000 Power Tool		10	8	135.000	155.000	145.000	0.05
051 108-0400	Bracing Let-in,"T" shaped, 20 ga. galv. steel, studs at 610 mm O.C.				10	8	140.000	161.000	150.500	0.05
051 108-0500	Bracing Let-in,"T" shaped,16 ga. galv. steel straps,studs at 410 mm O.C.	1			10		140.000	161.000	150.500	0.05
51 110	PIPE SUPPORT FRAMING:									
51 110-0010	0 Pipe Support Framing under 15 kg/m	KG	0.375 Struc Steel 2.000 Steel Fitter 1.000 Steel Welde 1.000 Welding Ma 1.000 Power Tool	Constant	27	16	1400.000	1610.000	1505.000	0.01
251 110-0200	Pipe Support Framing, 15.1 to 30 kg/m				27	16	1800.000	1840.000	1720.000	0.01
51 110-0600	Pipe Support Framing,over 30 kg/m				27	16	1600.000	1840.000	1720.000	0.01
051 200	STRUCTURAL STEEL:									
051 204	ANCHOR BOLTS:									
51 204-0010	0 Anchor Bolts See division 041-504									
051 212	CANOPY FRAMING:									
51 212-0010	Canopy Framing 150 mm and 200 mm members	KG	0.375 Struc Steel 2.000 Steel Fitter 1.000 Steel Welde 1.000 Welding Ma 1.000 Power Tool		27	16	1000.000	1150,000	1075.000	0.016
051 215	CEILING SUPPORTS:									
001 210		_	0.375 Struc Steel	MC264630						
	Entrance door/folding partition supports;1.8 m x 2.4 m	UV.	2.000 Steel Fitter 1.000 Steel Weide 1.000 Welding Ma 1.000 Power Tool	anonaean L _{aur}	27	:16	14.000	16.000	15.000	1.143
51 215-1000	Entrance door/folding partition supports, 1.8 m x 2.4 m Uintels or shelf angles, hung, exterior hot dipped galv.	UM +	2.000 Steel Fitter 1.000 Steel Weide 1.000 Welding Ma	anonaean L _{aur}	27	16	14.000 75.000	16.000	15.000 80.500	
51 215-1000	_ev.cov/documents/section (Color)		2.000 Steel Fitter 1.000 Steel Weide 1.000 Welding Ma	anonaean L _{aur}	27			=3/000	1597.63	0.213
51 215-1000 51 215-1200 51 215-1400	Untels or shelf angles, hung exterior hot dipped galv.	-	2.000 Steel Fitter 1.000 Steel Weide 1.000 Welding Ma	anonaean L _{aur}	27	16	75.000	86.000	80.500	0.213 4.000
51 215-1000 51 215-1200 51 215-1400 51 215-1450	Unitels or shelf angles, hung, exterior hot dipped galv. Monitor support 1.8 m Paremiter, 1.2 m hung from ceiling by expansion botted	-	2.000 Steel Fitter 1.000 Steel Weide 1.000 Welding Ma	anonaean L _{aur}	27	16 16	75.000 4.000	86.000 5.000	80.500 4.500	0.213 4.000 3.200
51 215-1000 51 215-1200 51 215-1400 51 215-1450 51 215-1600	Unitels or shalf angles, hung, exterior hot dipped galv. Monitor support 1.8 m Paremiter, 1.2 m hung from ceiling by expansion bolted Monitor support 1.8 m Paremiter, 1.2 m hung from ceiling by pre-set inserts.	-	2.000 Steel Fitter 1.000 Steel Weide 1.000 Welding Ma	anonaean L _{aur}	27 27 27 27 27	16 16 16	75.000 4.000 5.000	86.000 5.000 6.000	80.500 4.500 5.500	0.213 4.000 3.200 4.000
51 215-1000 51 215-1200 51 215-1400 51 215-1450 51 215-1600 51 215-1700	D Lintels or shalf angles, hung, exterior hot dipped galv. Monitor support 1.8 m Paremiter, 1.2 m hung from ceiling by expansion bolted Monitor support 1.8 m Paremiter, 1.2 m hung from ceiling by pre-set inserts. Motor supports for overhead electric doors 6 m wide.	EA	2.000 Steel Fitter 1.000 Steel Weide 1.000 Welding Ma	anonaean L _{aur}	27 27 27 27	16 16 16	75.000 4.000 5.000 4.000	86.000 5.000 6.000 5.000	80.500 4.500 5.500 4.500	0.213 4.000 3.200 4.000
51 215-1200 51 215-1400 51 215-1450 51 215-1450 51 215-1600 51 215-1790 51 215-2000	D Lintels or shelf angles, hung, exterior hot dipped galv. Monitor support 1.8 m Paremiter, 1.2 m hung from ceiling by expansion bolted Monitor support 1.8 m Paremiter, 1.2 m hung from ceiling by pre-set inserts. Motor supports for overhead electric doors 6 m wide. Partition support for heavy folding partitions 2.6 m high	EA	2.000 Steel Fitter 1.000 Steel Weide 1.000 Welding Ma	anonaean L _{aur}	27 27 27 27 27	16 16 16 16	75.000 4.000 5.000 4.000 10.000	\$6.000 5.000 6.000 5.000 12.000	80.500 4.500 5.500 4.500 11.000	0.213 4.000 3.200 4.000 1.600
51 215-1000 51 215-1200 51 215-1400 51 215-1450 51 215-1600 51 215-2000 51 215-2000 51 215-2400	D Lintels or shelf angles, hung, exterior hot dipped galv. Monitor support 1.8 m Paremiter, 1.2 m hung from ceiling by expansion boiled Monitor support 1.8 m Paremiter, 1.2 m hung from ceiling by pre-set inserts. Motor support for overhead excitic doors 6 m wide. Partition support for heavy tolding partitions 2.6 m high Rolling grilles & fire door, supports, to 2.4 m high.	EA	2.000 Steel Fitter 1.000 Steel Weide 1.000 Welding Ma	anonaean L _{aur}	27 27 27 27 27 27	16 16 16 16 16	75.000 4.000 5.000 4.000 10.000 15.000	86.000 5.000 6.000 5.000 12.000 17.000	80.500 4.500 5.500 4.500 11.000	0.213 4.000 3.200 4.000 1.600 1.067
151 215-1000 151 215-1200 151 215-1400 151 215-1450 151 215-1600 151 215-1700 151 215-2000 151 215-2400 151 220	Lintels or shelf angles, hung, exterior hot dipped galv. Monitor support 1.8 m Paremiter, 1.2 m hung from ceiling by expansion bolted Monitor support 1.8 m Paremiter, 1.2 m hung from ceiling by pre-set inserts. Motor supports for overhead electric doors 6 m wide. Partition support for heavy folding partitions 2.6 m high Rolling grilles & fire door, supports, to 2.4 m high. Tollet partition support, wall hung, 1.6 m high.	EA	2.000 Steel Fitter 1.000 Steel Weide 1.000 Welding Ma	Shine	27 27 27 27 27 27	16 16 16 16 16	75.000 4.000 5.000 4.000 10.000 15.000	86.000 5.000 6.000 5.000 12.000 17.000	80.500 4.500 5.500 4.500 11.000	0.213 4.000 3.200 4.000 1.600
51 215-1000 51 215-1200 51 215-1400 51 215-1450 51 215-1600 51 215-1700 51 215-2000 51 215-2000 51 215-2000 51 220-0010	Lintels or shelf angles, hung, exterior hot dipped galv. Monitor support 1.8 m Paremiter, 1.2 m hung from ceiling by expansion bolted Monitor support 1.8 m Paremiter, 1.2 m hung from ceiling by pre-set inserts. Motor supports for overhead electric doors 6 m wide. Partition support for heavy folding partitions 2.6 m high. Rolling grilles & fire door, supports, to 2.4 m high. Toilet partition support, wall hung, 1.6 m high. COLUMNS:	EA UM	2,000 Shelf Hitter 1,000 Bloot Wedde 1,000 Wedding Mar 1,000 Power Tool 1,000 Power Tool 2,000 Shelf Filter 1,000 Shelf Filter 1,000 Shelf Filter 1,000 Shelf gelde	Shine	27 27 27 27 27 27	16 16 16 18 18 16	75.000 4.000 5.000 4.000 10.000 15.000	86.000 5.000 6.000 5.000 12.000 17.000	80.500 4.500 5.500 4.500 11.000 16.000	0.213 4.000 3.200 4.000 1.600 1.067
51 215-1000 51 215-1200 51 215-1400 51 215-1450 51 215-1600 51 215-2000 51 215-2000 51 215-2000 51 220-0010	Lintels or shelf angles, hung, exterior hot dipped galv. Monitor support 1.8 m Paremiter, 1.2 m hung from ceiling by expansion bolted Monitor support 1.8 m Paremiter, 1.2 m hung from ceiling by pre-set inserts. Motor supports for overhead electric doors 6 m wide. Partition support for heavy folding partitions 2.6 m high. Rolling grilles & fire door, supports, to 2.4 m high. Tollet partition support, wall hung, 1.6 m high. COLUMNS:	EA UM	2,000 Shelf Hitter 1,000 Bloot Wedde 1,000 Wedding Mar 1,000 Power Tool 1,000 Power Tool 2,000 Shelf Filter 1,000 Shelf Filter 1,000 Shelf Filter 1,000 Shelf gelde	Shine	27 27 27 27 27 27 27	16 16 16 18 18 16 16	75.000 4.000 5.000 4.000 10.000 15.000 60.000	86.000 5.000 6.000 5.000 12.000 17.000 69.000	80.500 4.500 5.500 4.500 11.000 16.000 64.500	0.213 4.000 3.200 4.000 1.600 1.060 0.267
51 215-1000 51 215-1000 51 215-1400 51 215-1450 51 215-1600 51 215-2000 51 215-2000 51 215-2000 51 220-0010 51 220-0300 51 220-0500	Lintels or shelf angles, hung, exterior hot dipped galv. Monitor support 1.8 m Paremiter, 1.2 m hung from ceiling by expansion bolted Monitor support 1.8 m Paremiter, 1.2 m hung from ceiling by pre-set inserts. Motor supports for overhead electric doors 6 m wide. Partition support for heavy folding partitions 2.6 m high Rolling grilles & fire door, supports 0.2.4 m high. Tollet partition support, wall hung, 1.6 m high. COLUMNS: Aluminium, extruded, 200 mm dia.	EA UM	2,000 Shelf Hitter 1,000 Bloot Wedde 1,000 Wedding Mar 1,000 Power Tool 1,000 Power Tool 2,000 Shelf Filter 1,000 Shelf Filter 1,000 Shelf Filter 1,000 Shelf gelde	Shine Foreman Foreman	27 27 27 27 27 27 27	16 16 16 16 16 16 16 16 16 16	75.000 4.000 5.000 4.000 10.000 15.000 60.000	86.000 5.000 5.000 12.000 17.000 17.000 69.000	80.500 4.500 5.500 4.500 11.000 16.000 64.500	0.21: 4.00i 3.20i 4.00i 1.60i 1.06i 0.26i
51 215-1000 51 215-1200 51 215-1400 51 215-1450 51 215-1450 51 215-1450 51 215-1600 51 215-1700 51 215-2400 51 220-0010 51 220-0010 51 220-0300 51 220-0520	Lintels or shelf angles, hung, exterior hot dipped galv. Monitor support 1.8 m Paremiter, 1.2 m hung from ceiling by expansion bolted Monitor support 1.8 m Paremiter, 1.2 m hung from ceiling by pre-set inserts. Motor supports for overhead electric doors 6 m wide. Partition support for heavy folding partitions 2.6 m high Rolling grilles & fire door, supports, to 2.4 m high. Tollet partition support, wall hung, 1.6 m high. COLUMNS: Aluminium, extruded, 200 mm dia. Aluminium, extruded, 310 mm dia. Aluminium, extruded, Square columns 200 mm	EA UM	2,000 Sheef Hitter 1,000 Brown Tool 1,000 Power Tool 1,000 Power Tool 2,000 Sheef Filter 1,000 Sheef Sheef 1,000 Sheef Sheef	Foreman Foreman Foreman Foreman	27 27 27 27 27 27 27 27	16 16 16 16 16 16 16 16 16 16 16 16 16	75.000 4.000 5.000 4.000 10.000 15.000 60.000 32.000	86.000 5.000 5.000 12.000 17.000 17.000 69.000 87.000	80.500 4.500 5.500 4.500 11.000 16.000 64.500 34.500	0.21: 4.000 3.200 4.000 1.600 1.06: 0.26: 0.500 0.444
51 215-1000 51 215-1000 51 215-1400 51 215-1450 51 215-1450 51 215-1600 51 215-2000 51 215-2000 51 215-2000 51 220-0300 51 220-0300 51 220-0500	Lintels or shelf angles, hung, exterior hot dipped galv. Monitor support 1.8 m Paremiter, 1.2 m hung from ceiling by expansion botted Monitor support 1.8 m Paremiter, 1.2 m hung from ceiling by pre-set inserts. Motor supports for overhead electric doors 6 m wide. Partition support for heavy folding partitions 2.6 m high Rolling grilles & fire door, supports, to 2.4 m high. Tollet partition support, wall hung, 1.5 m high. COLUMNS: Aluminium, extruded, 200 mm dia. Aluminium, extruded, Square columns 200 mm Aluminium, extruded, Square columns 380 mm	EA LW	2.000 Sheef Fitter 1.000 Sheef Weiden 1.000 Weiding Mai 1.000 Power Tool 1.000 Power Tool 2.000 Sheef Fitter 1.000 Weiding Mai 1.000 Sheef Weiden 1.000 Sheef Weiden 1.000 Sheef Weiden 1.000 Sheef Weiden 1.000 Power Tool 0.375 Struc. Sheel 1.000 Weiding Mai 1.000 Power Tool 0.000 Sheef Weiden 1.000 Sheef Weiden 1.000 Sheef Weiden 1.000 Sheef Forem	Foreman Foreman Foreman Foreman	27 27 27 27 27 27 27	16 16 16 16 16 16 16 16 16 16 16 16 16	75.000 4.000 5.000 10.000 15.000 15.000 60.000 32.000 36.000	86.000 5.000 6.000 5.000 12.000 17.000 69.000 87.000 41.000 32.000	80.500 4.500 5.500 4.500 11,000 16,000 64,500 34,500 36,500	0.21: 4.00 3.20 4.00 1.60 1.06 1.06 0.26 0.50 0.44 0.57
151 215-1000 151 215-1200 151 215-1400 151 215-1450 151 215-1600 151 215-1600 151 215-2000 151 215-2000 151 220-0010 151 220-0300 151 220-0500 151 220-0500 151 220-0500 151 220-0800 151 220-0800	Unitels or shelf angles, hung, exterior hot dipped galv. Monitor support 1.8 m Paremiter, 1.2 m hung from ceiling by expansion botted Monitor support 1.8 m Paremiter, 1.2 m hung from ceiling by pre-set inserts. Motor supports for overhead electric doors 6 m wide. Partition support for heavy folding partitions 2.6 m high. Rolling grilles & fire door, supports, to 2.4 m high. Tollet partition support, wall hung, 1.6 m high. COLUMNS: Aluminium, extruded, 200 mm dia. Aluminium, extruded, 310 mm dia. Aluminium, extruded, Square columns 200 mm Aluminium, extruded, Square columns 380 mm Steel, concrete filled, extra strong pipe, 89 mm diameter	EA UM UM UM UM	2.000 Sheef Fitter 1.000 Sheef Weiden 1.000 Weiding Mai 1.000 Power Tool 1.000 Power Tool 2.000 Sheef Fitter 1.000 Weiding Mai 1.000 Sheef Weiden 1.000 Sheef Weiden 1.000 Sheef Weiden 1.000 Sheef Weiden 1.000 Power Tool 0.375 Struc. Sheel 1.000 Weiding Mai 1.000 Power Tool 0.000 Sheef Weiden 1.000 Sheef Weiden 1.000 Sheef Weiden 1.000 Sheef Forem	Foreman Foreman Foreman Foreman	27 27 27 27 27 27 27 27 27	16 16 16 16 16 16 16 16 16 16 16 16 16	75.000 4.000 5.000 4.000 10.000 15.000 60.000 32.000 28.000	86.000 5.000 6.000 5.000 12.000 17.000 17.000 37.000 32.000	80.500 4.500 5.500 4.500 11.000 16.000 64.500 34.500 30.000	0.213 4.000 3.200 4.000 1.600 1.060
151 215-1000 151 215-1200 151 215-1400 151 215-1450 151 215-1450 151 215-1600 151 215-2000 151 215-2000 151 220-0010 151 220-0300 151 220-0520 151 220-0520 151 220-0800 151 220-0800 151 220-0800 151 220-0800 151 220-0800	Lintels or shelf angles, hung, exterior hot dipped galv. Monitor support 1.8 m Paremiter, 1.2 m hung from ceiling by expansion botted Monitor support 1.8 m Paremiter, 1.2 m hung from ceiling by pre-set inserts. Motor supports for overhead electric doors 6 m wide. Partition support for heavy folding partitions 2.6 m high Rolling grilles & fire door, supports, 0.2.4 m high. Tollet partition support, wall hung, 1.6 m high. COLUMNS: Aluminium, extruded, 200 mm dia. Aluminium, extruded, 310 mm dia. Aluminium, extruded, Square columns 200 mm Steel, concrete filled, extra strong pipe, 89 mm diameter Steel, concrete filled, extra strong pipe, 150 mm diameter	EA UM UM .	2.000 Sheef Fitter 1.000 Sheef Weiden 1.000 Weiding Mai 1.000 Power Tool 1.000 Power Tool 2.000 Sheef Fitter 1.000 Weiding Mai 1.000 Sheef Weiden 1.000 Sheef Weiden 1.000 Sheef Weiden 1.000 Sheef Weiden 1.000 Power Tool 0.375 Struc. Sheel 1.000 Weiding Mai 1.000 Power Tool 0.000 Sheef Weiden 1.000 Sheef Weiden 1.000 Sheef Weiden 1.000 Sheef Forem	Foreman Foreman Foreman Foreman	27 27 27 27 27 27 27 27 27 27	16 16 16 16 16 16 16 16 16 16 16 16 16	75.000 4.000 5.000 10.000 15.000 15.000 32.000 36.000 28.000	86.000 5.000 6.000 5.000 12.000 17.000 17.000 37.000 37.000 32.000	80.500 4.500 5.500 4.500 11.000 16.000 64.500 34.500 30.000	0.21: 4.000 3.200 4.000 1.600 1.060 0.260 0.500 0.444 0.571

100 - 100 ASS 17 - 15	N 05: METALS	-	10000000	Service 1					
CODE	ITEM DESCRIPTION	UNIT	STRUCTURE	HOURS	CREW EQUIP.	D. O. MIN.	D. O. MAX.	D. O. AVRG	AVRG. E.H.
51 220-3300	O Square structural tubing 100 mm to 150 mm, light section	KG		44	8	4000.000	4600.000	4300.000	0.0
Marrison Continues	0 Square structural tubing, 100 mm to 150 mm, Heavy section	-		44	8	8500.000	9775.000	9137.500	0.0
	Square structural tubing 100 mm to 150 mm, light section, concrete filled, 4.3 m high	EA		44		40.000	46.000	43.000	0.2
	0 Square structural tubing 150 mm to 150 mm, x5.4 mm, 4.3 m high.) be		44	Ð	36.000	41.000	38.500	0,23
	Rectangular structural tubing, 127mm to 150 mm wide. Heavy section	KIG		44	В	9500.000	10925.000	10212.500	0:00
	Rectangular structural tubing,178mm to 254 wide, light section	393		44	8	10500,000	12075,000	11287,500	0.00
New ENVIOLENCE	D Rectangular structural tubing, 254 mm x 152 mm x 9.5 mm, 4,3 m high.	EA		44	8	38,000	44.000	41.000	0.2
COLD WAY WAY COLD	Wide flange column,A36 steel Eye beam, (1),2 tier,W 200x36 (W8x24)	LM	1	44	ŧ	260.000	299.000	279.500	0.03
CONTRACTOR CONTRACTOR	D Wide flange column, A36 steel (1) Beam 2 tier, W 200x71 (W8x48)	++-	-	44	В	240.000	276.000	258.000	0.00
end to have been some	0 Wide flange column,A36 steel (1) Beam,2 tier,W 200x100 (W8x67) 0 Wide flange column,A36 steel (1) Beam,2 tier,W 250x167 (W10x112)	++		44	8	225.000	259.000	242.000	0.03
	0 Wide flange column, A36 steel (1) Beam, 2 tier, W 250x167 (W10x112)	++-		44	8	230.000	265.000	247.500	0.03
	D Wide flange, A36 steel 'I' Beam, 2 ber, W 310x283 (W12x190)	+	1	44	ā	210.000	265.000 242.000	247.500	0.03
-	Wide flange, A36 steel 'l' Beam, 2 tier, W 360x179 (W14x120)	++	-	44	8	220.000	253.000	226.000	0.00
STATE STATE	Wide flange, A36 steel T Beam, 2 tier, W 360x262 (W14x176)	++		44	8	210.000	242.000	236.500	0.03
051 230	LIGHTWEIGHT FRAMING:	1 *	1			210.000	242.000	220.000	U.U.
051 230-0200	For steel studs see division 092-612								
		1	0.500 Steel Foreman						
	Angle framing 100 mm and larger	KG	4 000 Steel Workers 1,000 Crane operator 1,000 Mobile Crane	44	6	1000.000	1150,000	1075.000	0.00
	Angle framing,less than 100 mm.	1		44	8	650.000	747.000	698,500	0.01
	Channel framing, 200 mm and larger	-		44	8	1200.000	1380.000	1290.000	0.00
251 230-1000	Continuous slotted channel framing system, average	1	2 Skilled Worker 0.375 Struc. Steel Foreman	16	0	700.000	805.000	752.500	0.00
051 230-1300	Cross bracing rods,19mm diameter		2 000 Steel Fifte: 1.000 Steel Welder 1.000 Steel Welder 1.000 Welding Machine 1.000 Power Tool	27	16	420.000	483,000	451.500	0.03
051 230-1320	Cross bracing rods, 25 mm diameter			27	16.	420.000	483.000	451.500	0.03
51 230-1330	Cross bracing angle, 127 mm x 127mm x 9.5 mm			27	16	1650,000	1898.000	1774.000	0.01
51 230-1350	Hanging lintels.average			27	16	500.000	575.000	537.500	0.03
951 230-1380	Roof frames, up to 1.0 meter square & 1.5 m span		1 000 Steel Foreman 4 000 Steel Workers 1 000 Crane operator 1 000 Mobile Crane	48	B.	1400.000	1610.000	1505.000	0.00
251 230-1600	Tubular aluminum framing for window wall, average		7 SALE WASHE CHES	48	8	350 000	403.000	376.500	0.02
51 232	LINTELS:							6311630409	53(5)
51 232-0010	Plain steel angles, under 225kg	KG	Z DO Steel Workers	16	D	425,000	489 000	457.000	0.00
51 232-0100	Plain steel angles, above 225kg	\Box		16	D	500.000	575.000	537.500	0.00
51 232-2700	Steel angles, 102 mm x 89 mm, 6.4 mm thick, 2.7 m long	1		16	0	55.000	63.000	59.000	0.00
51 232-3500	For precast lintels, see div. 034-802								
51 238	SPACE FRAME:	14							
51 238-0010	Steel 1.2 m modular, 12 to 21 m spans, 26.9 kg/m2 average	SOM	1.00 Steel Foreman 4.00 Steel Workers 1.00 Crane Operators 1.00 Mobile Crane	46	6	27.000	31,000	29.000	0.296
51 238-0400	Steel 1.5 m modular, 12 to 21 m spans, 22.0 kg/m2 average			48	8	40.000	46.000	43,000	0.200
51 240	STEEL CUTTING:				The second second				
51 240-0100	Steel Cutting Hand burning including preparation, torch cutting and grinding no staging, steel to 13 mm thick	LM	0.125 Foreman 1.000 Steel Foreman 1.000 Tools Set	9	ē	16.000	18.000	17.000	0.500
51 240-0150	Steef Cutting Hand burning including preparation, torch cutting and grinding no staging, steel 19 mm thick			9	6	12.000	14.000	13,000	0.667
	to to the grade grade grade stating steel to thin blick		and the second s			C8836980	12.000	11,000	0.800
	Steel Cutting Hand burning, including preparation,	LM	0 125 Foreman 1,000 Steel Foreman	9	8	10.000		11.000	
01 240 0200	Steel Cutting Hand burning,including preparation, torch cutting,and ghinding,no staging, steel 25 mm thick	LM		9	8	10.000		11.000	
51 25 0 51 250	Steel Cutting Hand burning, including preparation, torch cutting, and grinding, no staging, steel 25 mm thick STRUCTURAL STEEL MEMBERS: Structural steel members common wide flange (WF) sizes, spans 3 m to 15 m including botted connections and erection W150 x 13 (W 6 x 9)	LM	1.000 Steel Foreman	.48	34	133.000	153.000	143.000	0.256
51 250 51 250 51 250-0100 51 250-0140	Steel Cutting Hand burning, including preparation, torch cutting, and grinding, no staging, steel 25 mm thick STRUCTURAL STEEL MEMBERS: Structural steel members common wide flange (WF) sizes, spans 3 m to 15 m including boiled connections and erection W150 x 13 (W 6 x 9) Structural steel members common WF sizes, spans 3 m to 15 m including boiled connections and erection W150 x 30 (W 6 x 20)		1.000 Steel Foremen 1.000 Steel Foreman 4.000 Steel Workers & Weider 1.000 Crane Operators 1.000 Crane Operators 1.000 Drill 1 HP 1.000 Weider GMC 1.000 More Control Steel				153.000		0.256
51 250 51 250 51 250-0100	Steel Cutting Hand burning, including preparation, torch cutting, and grinding, no staging, steel 25 mm thick. STRUCTURAL STEEL MEMBERS: Structural steel members common wide flange (WF) sizes, spans 3 m to 15 m including bolted connections and erection W150 x 13 (W 6 x 9). Structural steel members common WF sizes, spans 3 m to 15 m.		1.000 Steel Foremen 1.000 Steel Foreman 4.000 Steel Workers & Weider 1.000 Crane Operators 1.000 Crane Operators 1.000 Drill 1 HP 1.000 Weider GMC 1.000 More Control Steel	48	34	133.000	- 11	143.000	0 238
51 250-0100 51 250-0100 51 250-0140 51 250-0320 51 250-0320	Steel Cutting Hand burning, including preparation, torch cutting, and grinding, no staging, steel 25 mm thick. STRUCTURAL STEEL MEMBERS: Structural steel members common wide flange (WF) sizes, spans 3 m to 15 m including boiled connections and erection W150 x 13 (W 6 x 9) Structural steel members common WF sizes, spans 3 m to 15 m including boiled connections and erection W150 x 30 (W 6 x 20) Structural steel members common WF sizes, spans 3 m to 15 m including boiled connections and erection W150 x 30 (W 6 x 15) Structural steel members common WF sizes, spans 3 m to 15 m including boiled connections and erection W200 x 22 (W 8 x 15) Structural steel members common WF sizes, spans 3 m to 15 m including boiled connections and erection W200 x 22 (W 8 x 15) Structural steel members common WF sizes, spans 3 m to 15 m		1.000 Steel Foremen 1.000 Steel Foreman 4.000 Steel Workers & Weider 1.000 Crane Operators 1.000 Crane Operators 1.000 Drill 1 HP 1.000 Weider GMC 1.000 More Control Steel	48	34	133.000	136.000	143.000 127.000 133.500	0 2 % 0 274
51 250 51 250-0100 51 250-0140 51 250-0320 51 250-0320 51 250-0500	Steel Cutting Hand burning, including preparation, torch outling, and grinding, no staging, steel 25 mm thick. STRUCTURAL STEEL MEMBERS: Structural steel members common wide flange (WF) sizes, spans 3 m to 15 m including botted connections and erection W150 x 13 (W 6 x 9) Structural steel members common WF sizes, spans 3 m to 15 m including botted connections and erection W150 x 30 (W 6 x 20) Structural steel members common WF sizes, spans 3 m to 15 m including botted connections and erection W200 x 22 (W 8 x 15) Structural steel members common WF sizes, spans 3 m to 15 m including botted connections and erection W200 x 22 (W 8 x 15) Structural steel members common WF sizes, spans 3 m to 15 m including botted connections and erection W200 x 46 (W 8 x 31) Structural steel members common WF sizes, spans 3 m to 15 m including botted connections and erection W200 x 46 (W 8 x 31)		1.000 Steel Foremen 1.000 Steel Foreman 4.000 Steel Workers & Weider 1.000 Crane Operators 1.000 Crane Operators 1.000 Drill 1 HP 1.000 Weider GMC 1.000 More Control Steel	48 46 46 48	34 34 34	133.000 118.000 124.000	136.000 143.000 143.000	143.000 127.000 133.500 133.500	0.274 0.274
51 250 51 250-0100 51 250-0100 51 250-0140 51 250-0320 51 250-0500 51 250-0540	Steel Cutting Hand burning, including preparation, torch outling, and grinding, no staging, steel 25 mm thick. STRUCTURAL STEEL MEMBERS: Structural steel members common wide flange (WF) sizes, spans 3 m to 15 m including botted connections and erection W150 x 13 (W 6 x 9). Structural steel members common WF sizes, spans 3 m to 15 m including botted connections and erection W150 x 30 (W 6 x 20). Structural steel members common WF sizes, spans 3 m to 15 m including botted connections and erection W200 x 22 (W 8 x 15). Structural steel members common WF sizes, spans 3 m to 15 m including botted connections and erection W200 x 26 (W 8 x 31). Structural steel members common WF sizes, spans 3 m to 15 m including botted connections and erection W200 x 46 (W 8 x 31). Structural steel members common WF sizes, spans 3 m to 15 m including botted connections and erection W200 x 71 (W 8 x 48).		1.000 Steel Foremen 1.000 Steel Foreman 4.000 Steel Workers & Weider 1.000 Crane Operators 1.000 Crane Operators 1.000 Drill 1 HP 1.000 Weider GMC 1.000 More Control Steel	48 48 48 48	34 34 34 34	133.000 118.000 124.000 124.000	136.000 143.000 143.000 131.000	143.000 127.000 133.500 13.500	0.274 0.274
51 250 51 250-0100 51 250-0140 51 250-0320 51 250-0500 51 250-0500 51 250-0600	Steel Cutting Hand burning, including preparation, torch cutting, and grinding, no staging, steel 25 mm thick. STRUCTURAL STEEL MEMBERS: Structural steel members common wide flange (WF) sizes, spans 3 m to 15 m including botted connections and erection W150 x 13 (W 6 x 9). Structural steel members common WF sizes, spans 3 m to 15 m including botted connections and erection W150 x 30 (W 6 x 20). Structural steel members common WF sizes, spans 3 m to 15 m including botted connections and erection W200 x 22 (W 8 x 15). Structural steel members common WF sizes, spans 3 m to 15 m including botted connections and erection W200 x 246 (W 8 x 31). Structural steel members common WF sizes, spans 3 m to 15 m including botted connections and erection W200 x 71 (W 8 x 48). Structural steel members common WF sizes, spans 3 m to 15 m including botted connections and erection W200 x 71 (W 8 x 48). Structural steel members common WF sizes, spans 3 m to 15 m including botted connections and erection W200 x 71 (W 8 x 48).		1.000 Steel Foremen 1.000 Steel Foreman 4.000 Steel Workers & Weider 1.000 Crane Operators 1.000 Crane Operators 1.000 Drill 1 HP 1.000 Weider GMC 1.000 More Control Steel	48 46 46 48	34 34 34	133.000 118.000 124.000	136.000 143.000 143.000	143.000 127.000 133.500 133.500	0.274 0.274 0.274
51 250 51 250-0100 51 250-0140 51 250-0320 51 250-0500 51 250-0540 51 250-0540 51 250-0540 51 250-0540 51 250-0540	Steel Cutting Hand burning, including preparation, torch cutting, and grinding, no staging, steel 25 mm thick STRUCTURAL STEEL MEMBERS: Structural steel members common wide flange (WF) sizes, spans 3 m to 15 m including botted connections and erection W150 x 13 (W 6 x 9) Structural steel members common WF sizes, spans 3 m to 15 m including botted connections and erection W150 x 30 (W 6 x 20) Structural steel members common WF sizes, spans 3 m to 15 m including botted connections and erection W200 x 22 (W 8 x 15) Structural steel members common WF sizes, spans 3 m to 15 m including botted connections and erection W200 x 46 (W 8 x 31) Structural steel members common WF sizes, spans 3 m to 15 m including botted connections and erection W200 x 71 (W 8 x 48) Structural steel members common WF sizes, spans 3 m to 15 m including botted connections and erection W200 x 71 (W 8 x 48) Structural steel members common WF sizes, spans 3 m to 15 m including botted connections and erection W200 x 71 (W 8 x 48)		1.000 Steel Foremen 1.000 Steel Foreman 4.000 Steel Workers & Weider 1.000 Crane Operators 1.000 Crane Operators 1.000 Drill 1 HP 1.000 Weider GMC 1.000 More Control Steel	48 48 48 48	34 34 34 34	133.000 118.000 124.000 124.000	136.000 143.000 143.000 131.000	143.000 127.000 133.500 13.500	COLOR DE LA COLOR
51 250-0100 51 250-0100 51 250-0140 51 250-0320 51 250-0540 51 250-0640 51 250-0600 51 250-0740	Steel Cutting Hand burning, including preparation, torch cutting, and grinding, no staging, steel 25 mm thick. STRUCTURAL STEEL MEMBERS: Structural steel members common wide flange (WF) sizes, spans 3 m to 15 m including boiled connections and erection W150 x 13 (W 6 x 9). Structural steel members common WF sizes, spans 3 m to 15 m including boiled connections and erection W150 x 30 (W 6 x 20). Structural steel members common WF sizes, spans 3 m to 15 m including boiled connections and erection W200 x 22 (W 8 x 15). Structural steel members common WF sizes, spans 3 m to 15 m including boiled connections and erection W200 x 22 (W 8 x 31). Structural steel members common WF sizes, spans 3 m to 15 m including boiled connections and erection W200 x 46 (W 8 x 31). Structural steel members common WF sizes, spans 3 m to 15 m including boiled connections and erection W200 x 71 (W 8 x 48). Structural steel members common WF sizes, spans 3 m to 15 m including boiled connections and erection W200 x 11 (W 8 to x 48). Structural steel members common WF sizes, spans 3 m to 15 m including boiled connections and erection W250 x 18 (W10 x 12). Structural steel members common WF sizes, spans 3 m to 15 m including boiled connections and erection W250 x 18 (W10 x 12).		1.000 Steel Foremen 1.000 Steel Foreman 4.000 Steel Workers & Weider 1.000 Crane Operators 1.000 Crane Operators 1.000 Drill 1 HP 1.000 Weider GMC 1.000 More Control Steel	48 48 48 45 45	34 34 34 34 34	133.000 118.000 124.000 124.000 114.000 180.000	136,000 143,000 143,000 131,000 207,34	143 000 127,000 133,500 133,500 1,0,500	0 234 0 274 0 274 0 298

	N 05: METALS		MIS	A Section Section Vol.	A CONTRACTOR	CDEW COLUMN	- 11-		Countries -		THE REAL PROPERTY.	AMPO
CODE	ITEM DESCRIPTION	UNI	IT	STRUC		HOURS		UIP.	D. O. MIN.	D. O. MAX.	D. O. AVRG	AVRG. E.H.
051 250-1560	Structural steel members common WF sizes, spans 3 m to 15 m including bolted connections and erection W310 x 74 (W12 x 50)	T				48		34	152.000	175.000	163,500	0.22
051 250-1700	Structural steel members common WF sizes, spans 3 m to 15 m	Ħ				48		34	148.000	170,000	159.000	0.23
DE 4 DE 0 4740	Including bolted connections and erection W310 x107 (W12 x 72) Structural steel members common WF sizes,spans 3 m to 15 m	+	-			48		34	138.000	159.000	148.500	0.24
ASCULTACE PURITING	including bolted connections and erection W310 x129 (W12 x87) Structural steel members common WF sizes, spans 3 m to 15 m	H	_			1			1501232	100 E 100 C 100 C	96179Z049600	2500 Est./
051 250-1900	including bolted connections and erection W360 x39 (W14 x26)	Ш				48		34	241.000	277.000	259.000	0.14
051 250-2300	Structural steel members common WF sizes, spans 3 m to 15 m including bolted connections and erection W360 x51 (W14 x34)					48		34	223.000	256.000	239.500	0.15
051 250-2380	Structural steel members common WF sizes, spans 3 m to 15 m including bolted connections and erection W360 x134 (W14 x90)	П				48		34	171.000	197.000	184.000	0.19
051 250-2500	Structural steel members common WF sizes, spans 3 m to 15 m	H				48		34	147.000	169.000	158.000	0.23
	Including bolted connections and erection W360 x179 (W14 x120) Structural steel members common WF sizes, spans 3 m to 15 m	++	-			48		34	255.000	293.000	274.000	0.133
051 250-2700	including botted connections and erection W410 x39 (W16 x26) Structural steel members common WF sizes.spans 3 m to 15 m	+	_				_				0.0000000000000000000000000000000000000	
051 250-3120	including bolted connections and erection W410 x75 (W16 x50)					48		34	216.000	248.000	232 000	0.15
051 250-3140	Structural steel members common WF sizes, spans 3 m to 15 m including bolted connections and erection W410 x100 (W16 x67)					46		34	192.000	221.000	206.500	0.17
051 250-3300	Structural steel members common WF sizes, spans 3 m to 15 m including bolted connections and erection W460 x52 (W16 x35)			1.00 Steel Foreman 5.00 Steel Workers 1.00 Webser 1.00 Crane Operatio 1.00 Milble Crane 1.00 Inil 1 HP 1.00 Webing MC 1.00 Arc Torch Sat 0.25 Hydraulio Jacks		64		34	230.000	265 000	247.590	0.148
051 250-3900	Structural steel members common WF sizes spans 3 m to 15 m	\forall				54		34	250.000	288.000	269.000	0.136
	including bolted connections and erection W460 x82 (W18 x55) Structural steel members common WF sizes, spans 3 m to 15 m	+	-			64		34	224.000	258.000	241.000	0.152
051 250-3960	including botted connections and erection W480 x126 (W18 x86) Structural steel members common WF sizes, spans 3 m to 15 m	H	_				_		175551171510			ATMINOV
051 250-3980	including botted connections and erection W530 x66 (W21 x44)	Ш				64		34	269.000	309.000	289.000	0.126
051 250-4500	Structural steel members common WF sizes, spans 3 m to 15 m including bolted connections and erection W530 x92 (W21 x62)					64		34	274.000	315.000	294.500	0.124
051 250-4760	Structural steel members common WF sizes, spans 3 m to 15 m	П				54		34	237.000	273.000	255.000	0.143
051 250-4780	including bolled connections and erection W530 x150 (W21 x101) Structural steel members common WF sizes, spans 3 m to 15 m	H				64		34	236.000	271.000	253.500	0.144
	Including botted connections and erection W530 x182 (W21 x122) Structural steel members common WF sizes, spans 3 m to 15 m	+	-	-		64	-	34	282.000	324.000	303.000	0.121
051 250-4900	including botted connections and erection W610 x82 (W24 x55)		_				_					
051 250-5700	Structural steel members common WF sizes, spans 3 m to 15 m including bolted connections and erection W610 x125 (W24 x84)					54		34	251,000	289.000	270.000	0.135
051 250-5740	Structural steel members common WF sizes, spans 3 m to 15 m including bolled connections and erection W610 x155 (W24 x104)					64		34	234.000	269.000	251.500	0.145
051 250-5780	Structural steel members common WF sizes, spans 3 m to 15 m					64		34	220.000	253.000	236.500	0.155
051 250-5800	including bolted connections and erection W610 x217 (W24 x146) Structural steel members common WF sizes, spans 3 m to 15 m.	\top				64		34	251,000	289.000	270.000	0.135
	including bolted connections and erection W690 x125 (W27 x84) Structural steel members common WF sizes, spans 3 m to 15 m	+				64	-	34	241.000	277.000	259.000	0.141
051 250-5920 051 250-5960	including botted connections and erection W690 x170 (W27 x114) Structural steel members common WF sizes,spans 3 m to 15 m including botted connections and erection W690 x240 (W27 x161)	LM.		1.00 Steel Forerrari 5.00 Steel Workers 1.00 Weder 1.00 Crane Operator 1.00 Mobile Crane 1.00 Wedding M*C 1.00 Arc Torch Set 0.25 Hydrautic Jacks		64		34	212.000	244.000	228.000	0.160
051 250-6100	Structural steel members common WF sizes spans 3 m to 15 m including bolled connections and erection W760 x147 (W30 x99)				rabbet.	64		34	238.000	274.000	256.000	0.143
051 250-6500	Structural steel members common WF sizes, spans 3 m to 15 m					64		34	240.000	276.000	258.000	0.142
051 250-6540	Structural steel members common WF sizes, spans 3 m to 15 m	-	-			64		34	219.000	252.000	235.500	0.155
	including bolted connections and erection W760 x220 (W30 x148) Structural steel members common WF sizes spans 3 m to 15 m	H	-			-			-			
051 250-6580	including bolted connections and erection W760 x284 (W30 x191)	1				84		34	196.000	225.000	210.500	0.173
051 250-6700	Structural steel members common WF sizes, spans 3 m to 15 m including boiled connections and erection W840 x176 (W33 x118)		7			64		84	238.000	274.000	256.000	0.143
051 250-7100	Structural steel members common WF sizes spans 3 m to 15 m including botted connections and erection W840 x210 (W33 x141)	П				64		34	223.000	256.000	239.500	0.152
051 250-7140	Structural steel members common WF sizes, spars 3 m to 15 m	\top	17			64		34	192.000	221,000	206.500	0.177
	including bolted connections and erection W840 x299 (W33 x201) Structural steel members common WF sizes, spans 3 m to 15 m	+				64	-	34	227.000	261.000	244.000	0.150
William See	including botted connections and erection W920 x201 (W36 x135) Structural steel members common WF sizes, spans 3 m to 15 m	1	_			-	_	-	2000	75 A7	Turassens 2	Description of the last of the
51 250-7600	including botted connections and erection W920 x253 (W36 x170)					64		34	207,000	238.000	222.500	0.164
51 250-7900	Structural steel members common WF sizes, spans 3 m to 15 m including botted connections and erection W920 x342 (W36 x230)					64		34	189,000	217.000	203.000	0.180
	Structural steel members common WF sizes, spans 3 m to 15 m	T				64		34	165.000	190.000	177.500	0.206
	including bolled connections and erection W920 x446 (W36 x300) STRUCTURAL STEEL PROJECTS: Bolted, unless mentioned oth	erwis	se:			1 1						
	Offices, hospitals, etc., steel bearing, 1 to 2 stories	TON		2.00 Sassi Foremen 5.00 Sassi Workers 2.00 Sassi Workers 2.00 Sassi Workers 0.50 Crane Operator 0.50 Mobile Crane 3.00 Welding Machin 1.00 Air Compressor 0.125 Set Hydraulic 1.000 Power Tools 1.000 Tools Set		76		53	5.810	7.000	6.405	9.122

سلمونان اسا	ON 05: METALS	N. S. P.		STATE OF THE STATE	No. of the second	The state of the	44.5	ALC: NO.	
CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	HOURS	CREW EQUIP.	D. O. MIN.	D, O. MAX.	D. O. AVRG	AVRG. E.H.
051 255-080	0 Offices,hospitals,etcsteel bearing, 3 to 6 stones		3 00 State Foremeri 9 00 State Workers 4 00 State Workers 1 00 Crane Operator 1 00 Accide Crane 4 00 Westing Machines 1 00 Art Compression 0 125 Set Hydraulic Jacks 2 000 Power Tools 1 000 Tools Set	136	73	10.250	12.000	11,125	7.12
051 255-090	0 Offices, hospitals, etc., steel bearing, 7 to 15 stones			136	73	9 150	11.000	10.075	7.97
051 255-130(0 Industrial buildings,1 storey,beam & girders,steel bearing		2 00 Steel Foremen. 5 00 Steel Workers. 5 00 Steel Welders. 0 50 Craine Operation. 0 50 Craine Operation. 0 50 Mobile Craine. 3 00 Welding Machines. 1 00 Ar Compression. 0 175 Set Hydrausic Jacks. 1 000 Power Tools. 1,000 Tools Set:	76	sa	7.100	8.000	7.550	7.46
051 255-1400	0 Industrial buildings,1 storey,beam & girders,masonry bearing			76	53	5 400	6.000	5.700	9.815
051 255-1600	0 Industrial buildings,1 story with roof trusses, steel bearing			76	53	5.900	7.000	6.450	6.983
051 255-3100	0 Roof trusses, average			76	53	4.800	6.000	5.400	11.042
051 255-3400	0 Welded construction, simple commercial bidgs.,1 to 2 stories	1	.	76	53	5.000	6.000	5.500	10.600
051 255-4300	O Column base plates, light	KG	2.00 Skilled Workers 2.00 Tool Set	16	16	700,000	805.000	752.500	0.023
051 255-4400	0 Column base plates, heavy	ка	0.50 Steel Foreman 2.00 Steel Workers 1.00 Steel Worker 1.00 Crane Operator 1.00 Mobile Clame 1.00 Westing Machina	36	16	5000.000	5750.000	5375.000	0 003
051 255-4900	Castellated beams,heavy sections, to 75 kg/m, average	KG	-	36	16	5000.000	5750,000	5375.000	0.003
051 255-5200	High strength boits in place, light reaming 19 mm bolts, average	EA	2 00 Skilled Workers 2 00 Tool Set	16	16	140.000	161,000	150.500	0.114
051 255-5300	High strength boits in place, light reaming, 22 mm boits, average	*	¥	16	16	125,000	144.000	134 500	0.128
051 255-6170	Steel surface treatments, wire brush, hand	SOM	1 00 Painter Struc Steel 1 00 Consumable Tools	8	6	45.000	52,000	48.500	0 178
051 255-6180	Steel surface treatments, wire brush, power tool		*	8	8	48.000	55.000	51,500	0.167
051 255-6520	Paints & protective coatings, sprayed Alkyds, primer		2.00 Painters, Struc Steel 1.00 Paint Sprayer 8 L/s	16	Ð	250,000	288,000	269.000	0.032
051 255-6540	Paints & protective coatings sprayed gloss topcoats			16	8	225.000	259.000	242.000	0.036
051 255-6560	Paints & protective coatings, sprayed Silicon alkyd	1	+	16	8	225.000	259.000	242,000	0.036
051 255-6610	Paints & protective coatings sprayed epoxy primer	SOM	2 00 Painters Struc Steel 1 00 Paint Sprayer 8 L/s	16	0	210.000	242.000	226.000	0.038
	Paints & protective coatings,sprayed enamel coat			16	8	200.000	230.000	215,000	0.040
	Paints & protective coatings,sprayed latex primer			16	В	250,000	288.000	269.000	0.032
	Paints & protective coatings, sprayed latex primer top coats			16	8	225.000	259.000	242.000	0.036
SECONOMIES.	Paints & protective coatings, zinc rich primers, self cure, spray, inorganic	_ +	,	16	8	140.000	161.000	150.500	0.057
051 275	VIBRATION PADS:		2 00 Skilled Workers						
Distriction Theory	Laminated synthetic rubber impregnated cotton duck	CUM	2.00 Tools Set	18	16	0.040	0.05	0.045	400.000
Contraction of the Contraction of	Neoprene bearing pads 13 mm thick	SQM		16	16	1.750	2.000	1.875	9.143
	Neoprene bearing pads, 25 mm thick	++-		16	16	1.400	2.000	1.700	11,429
	Neoprene bearing pads, fabric reinforced, 35 Mpa, 25 mm thick Felt surfaced vinyl pads, cork and sisal, 25 mm thick	+		16	16	1.400	2.000	1,700	11.429
051 400	STRUCTURAL ALUMINIUM:	J_*_		10	16	1.400	2.000	1,700	11.429
051 404	ALUMINIUM:								
051 404-0100	ALUMINIUM structural shapes, 25 mm to 250 mm, over 5 metric ton	KG	1.00 Steel Foreman 4.00 Steel Workers 1.00 Crane Operator 1.00 Mobile Crane	48	е	440.000	506.000	473 000	0.018
51 404-0300	ALUMINIUM Extrusions, over 5 metric tons	1	4	48		440.000	506.000	473.000	0.018
052	METAL JOISTS	S(C.5)	7 K 1 1 2 2 3 1	(40)		55	THE REAL PROPERTY.	THE RES	
052 100	STEEL JOISTS:								
052 108	LIGHTGAUGE JOISTS:								
52 108-0010	Lightgauge Joists Punched,double railable, 250 mm deep 14 ga.to 12 ga	UM	0 125 Steel Foreman 1 00 Steel Workers 2 00 Common Laborer 1 00 Power Tool	25	8	225.000	259.000	242.000	0.036
APA-Y	Lightgauge Joists Punched,double nallable, 910 mm deep,14 ga.to 12 ga.		1,4	25	8	200.000	230.000	215.000	0.040
052 110	OPEN WEB JOISTS:		2 00 Steel Foreman 4.00 Steel Workers 2:00 Steel Wolder						-
52 110-0010	Open web joists K senes, horizontal bridging span up to 10 m, average	TON	1,00 Crane Operator 1,00 Mobile Crane 2,00 Welding Machine 2,00 Power Tools	72	40	6.500	7.000	6.750	6.154
	Open web joists K series, horizontal bridging span 10 m to 15 m, average			72	40	7.000	8.001	=0.0	57.4
A PRODUCTION OF THE PARTY OF TH		_							
52 110-2000	Open web joists LH series, bolted cross bridging span up to 30 m			72	40	7.500	9.000	a pen	5,955
52 110-2000 52 110-5500	Open web joists LH series, bolted cross bridging span up to 30 m Open web joists K series, welded cross bridging span up to 10 m, average Open web joists K series, welded cross bridging, span up to 10 m to 15m, average			72 72 72	40 40 40	7.500 5.500	9,000	8 250 5.156	5,952 1,270

	N 05:METALS			CDEW	CREW	CREW	D.C.	D.O.	D.0	AUDO
CODE	ITEM DESCRIPTION	UNI	r s	CREW	HOURS	EQUIP.	D. O. MIN.	D. O. MAX.	D. O. AVRG	AVRG.
053	METAL DECKING									- 20000
53 100	STEEL DECK:							- Alesoy		
053 104	METAL DECKING:	11. 11.7				_				
053 104-0200	Matal Darking Steel floor panels over 1500 m2	SOM	1.000 Weld	Welder er	40		115.000	132.000	123.500	0.07
53 104-0300	Metal Decking Steel floor panels, over 1500 m2	П	1.000 Wed	ing Machine	40		110.000	127.000	118.500	0.07
53 104-0320	Cellular units galvanized, 51 mm deep, 18-18 gauge. Metal Decking Steel floor panels, over 1500 m2.	H	+==		40		105.000	121.000	113.000	0.07
	Metal Decking Steel floor parels over 1500 m2	-	-				5 10 Web 20	\$55,015,000.00 \$5,000.000.00	11(982(92))	0.00
53 104-0400	Cellular units galvanized, 76 mm deep, 20-20 gauge(3")		-	_	40		110.000	127.000	118.500	0.07
53 104-0700	Cellular units galvanized, 76 mm deep, 16-18 gauge				40		95.000	109.000	102.000	0.08
53 104-2200	0 Metal Decking Steel floor panels, open type, galv., 38 mm deep, 22 ga., under 450 - 4500 m2				40		345,000	397.000	371.000	0.02
53 104-2400	Matal Decking Steel floor papels open hing galu				40		365.000	420.000	392.500	0.02
53 104-3060	Metal Decking Steel floor panels,open type,galv	Н			40		295.000	339.000	317.000	0.02
SHEET ON COMMAN SE	38mm deep,16 ga, under 450 - 4500 m2	+	+		40		240.000	276.000	258.000	0.03
53 104-3100	38 mm deep, 15 ga., over 4500 m2	-	-	-						
53 104-3560	76 mm deep,16 ga.,over 4500 m2		1		40		190.000	219.000	204.500	0.04
53 104-3900	Metal Decking Steel floor panels, open type, galv., 114 mm deep, long span roof, 16 gauge, over 450 m2				40		145.000	167.000	156.000	0.05
153 104-4100	Metal Dacking Steel thou panels open type call				40		135.000	155,000	145.000	0.05
53 104-4300	Metal Decking Steel floor panels, open type, galv.				40		125.000	144.000	134.500	0.06
	152 mm deep,long span ,14 gauge	*	1 00 Steel F	oremen	1		12-100-00-00-00-00-00-00-00-00-00-00-00-00	(1) (2002)	F E 14/4/14/4/07/28	752.007
53 104-4500	191 mm deep,iong span ,18 gauge(/-1/2')	SOM	17,000 Weld		40		260,000	299.000	279.500	0.03
53 104-5200	Metal Decking Steel floor panels, Non-cellular composite deck,galv., 51 mm deep,22: gauge(2")				40		280.000	322.000	301.000	0.02
53 104-5400	Metal Decking Steel floor panels, Non-cellular composite deck,galv., 51 mm deep,18				40		245.000	282.000	263.500	0.03
53 104-5500	gauge(2") Metal Decking Steel floor panels, Non-cellular composite deck,galv., 51 mm deep,18				40		230.000	265.000	247.500	0.03
	Matel Darking Steel floor penels, Non-cell for composite deck gals, 76 mm deep 22			_	40		230.000	265,000	247.500	0.03
53 104-5700	Modul Decking Steel floor panels. Not cell for composite deck solv. 76 mm deep 18	-	-	_	+		980000000	1000000000	70000000	125120
53 104-5900	gauge(3*)		-		40		210.000	242.000	226.000	0.03
53 104-6000	Metal Decking Steel floor panels, Non-cellular composite deck,galv., 76 mm deep,16 gauge(3")				40		190.000	219.000	204.500	0.04
055	METAL FABRICATION									8_0
055 100	METAL STAIRS:									
55 104	STAIRS:		-							
55 104-0100	Stair Steel,1.2 m wide including,safety nosing,steel tube stringers, Grating tread and pipe railing	RISER	1.000 Welch	Welder	:40	S. 6	25.000	29.000	27.000	0.32
55 104-0300	Stair Steel 1.2 m wide, including safety nosing, steel tube stringers,				40		25.000	29.000	27,000	0.32
55 104-0400	Cement fill metal pan and picket rail Stair Steel 1.2 m wide, including safety nosing steel tube stringers.	1			40		30.000	35.000	32.500	0.26
55 104-0500	Cast Iron tread and pipe rail. Stair Stael 1.1 m wide including safety positry steel tube strippers.		-		40		25.000	29.000	27.000	0.32
	Checkered plate tread, industrial		+	-	-					27.740740
55 104-0550	Checkered plate tread, circular for tanks	4	1	4	40		25.000	29.000	27,000	0.32
55 104-0600	Stair Steel, 1.2 m wide, free standing, including, safety nosing, steel tube stringers, grating treads and two pipe railing				40		15.000	17.000	16.000	0.53
55 104-1500	Stair Steel, Landing, steel pan, conventional	SOM			40		11.000	13.000	12,000	0.72
55 104-1830	Stair aluminium,spiral, 1.2 m diameter, aluminium treads, stock prefabricated unit.	RISEF		+	40		40,000	46.000	43.000	0.20
55 108	STAIR TREADS:									
	Stair Treads Alum.grating 910 mm long, 25 x 5 mm bars, 310 mm wide	EA	1.00 Skilled	Worker	8	0		18.000	17.000	0.00
55 108-0100					8	0		18.000	17,000	0.00
G11,112,112,112,117,117,117	Stair Treads Alum grating 910 mm long, 38 x 5 mm bars, 310 mm wide					0	11,000	13,000	12.000	0.00
55 108-0300					8		0.00 0.5-0			0.00
55 108-0300 55 108-0800 55 108-2010	Stair Treads Alum.grating 910 mm long, 38 x 5 mm bars, 310 mm wide Stair Treads cast Aluminium, 1.1 m long, 310 mm wide, 10 mm thick. Stair Treads Steel grating, 1.1 m long, 310 mm wide			1	8	0	10.000	12.000	11.000	4000
55 108-0300 55 108-0800 55 108-2010 55 150	Stair Treads Alum.grating 910 mm long, 38 x 5 mm bars, 310 mm wide Stair Treads cast Aluminium, 1.1 m long, 310 mm wide, 10 mm thick. Stair Treads Steel grating, 1.1 m long, 310 mm wide LADDERS:	ļ		<u> </u>			10.000	12.000	11.000	
55 108-0300 55 108-0800 55 108-2010 55 150	Stair Treads Alum.grating 910 mm long, 38 x 5 mm bars, 310 mm wide Stair Treads cast Aluminium, 1.1 m long, 310 mm wide, 10 mm thick. Stair Treads Steel grating, 1.1 m long, 310 mm wide	•					10.000	12.000	11.000	
55 108-0300 55 108-0800 55 108-2010 155 150	Stair Treads Alum.grating 910 mm long, 38 x 5 mm bars, 310 mm wide Stair Treads cast Aluminium, 1.1 m long, 310 mm wide, 10 mm thick. Stair Treads Steel grating, 1.1 m long, 310 mm wide LADDERS:	LM	1.00 Steel F 3.000 Steel 1.000 Wedd 1.000 Wedd	Welder			13.000	15.000	11.000	0.61
55 108-0300 55 108-0800 55 108-2010 55 150 55 158 55 158-0010	Stair Treads Alum.grating 910 mm long, 38 x 5 mm bars, 310 mm wide Stair Treads cast: Aluminium, 1.1 m long, 310 mm wide, 10 mm thick: Stair Treads Steel grating, 1.1 m long, 310 mm wide LADDERS: LADDER:	LM	3.000 Steel 1.000 Webb	Welder	8	0	13.000	20000		
55 108-0300 55 108-0800 55 108-2010 55 150 55 158 55 158-0010	Stair Treads Alum.grating 910 mm long, 38 x 5 mm bars, 310 mm wide Stair Treads cast. Aluminium, 1.1 m long, 310 mm wide, 10 mm thick. Stair Treads Steel grating, 1.1 m long, 310 mm wide LADDERS: LADDER: Ladder, steel or aluminium, bolted to concrete, with cage	LM .	3.000 Steel 1.000 Webb	Welder	40	0	13.000	15,000	14.000	
55 108-0300 55 108-0800 55 108-2010 55 150 55 158 55 158-0010	Stair Treads Alum.grating 910 mm long, 38 x 5 mm bars, 310 mm wide Stair Treads cast: Aluminium, 1.1 m long, 310 mm wide, 10 mm thick. Stair Treads Steel grating, 1.1 m long, 310 mm wide LADDERS: LADDER: Ladder, steel or aluminium, bolted to concrete, with cage Ladder steel or aluminium, bolted to concrete without cage	LM	3.000 Steel 1.000 Webb	Welder	40	0	13.000	15,000	14.000	0.61
55 108-0300 55 108-0800 55 108-2010 55 150 55 158 55 158-0010 55 158-0400 55 200	Stair Treads Alum.grating 910 mm long, 38 x 5 mm bars, 310 mm wide Stair Treads cast. Aluminium, 1.1 m long, 310 mm wide, 10 mm thick. Stair Treads Steel grating, 1.1 m long, 310 mm wide LADDERS: LADDER: Ladder, steel or aluminium, boiled to concrete, with cage Ladder steel or aluminium, boiled to concrete, without cage HANDRAILS & RAILINGS: BUMPER RAILS:	LM ·	3.000 Steel 1.000 Weidi 1.000 Weidi 1.000 Steel F 3.000 Steel 1.000 Weidi	Weider My Machine Document	40	0	13.000	15,000	14.000	
55 108-0300 55 108-0800 55 108-2010 55 150 55 158 55 158-0010 55 200 55 202-0010	Stair Treads Alum.grating 910 mm long, 38 x 5 mm bars, 310 mm wide Stair Treads cast Aluminium, 1.1 m long, 310 mm wide, 10 mm thick. Stair Treads Steel grating, 1.1 m long, 310 mm wide LADDERS: LADDER: Ladder,steel or aluminium,bolted to concrete,with cage Ladder steel or aluminium,bolted to concrete without cage HANDRAILS & RAILINGS: BUMPER RAILS: Bumper rails for garages, 12 ga.raii, 152 mm wide, with steel		3.000 Steel 1.000 Weids 1.000 Weids 1.000 Steel 3.000 Steel	Weider My Machine Document	40 40	0	13.000	15,000	14.000	0.40

	N 05: METALS	2000年10	The state of the s	医基金线			No.		等数2章
CODE	ITEM DESCRIPTION	UNI	CREW STRUCTURE	CREW HOURS	CREW EQUIP.	D. O. MIN.	D. O. MAX.	D. O. AVRG	AVRG E.H.
055 203-0010	D Railing Pipe Aluminium, 2 rail, 32 or 38 mm diam.	LM	1.00 Steel Foreman 3.000 Steel Welder 1.000 Welder 1.000 Welding Machine	:40	8	42.000	48.000	45,000	0.1
55 203-0500	Railing, Pipe Steel 2 rail, primed, 32 or 38 mm diameter			40	8	42.000	48,000	45.000	0.1
55 203-0640	Railing, Pipe Steel, 3 rail, 38 mm diameter			40	8	36.000	41.000	38.500	0.2
55 203-0700	Railing, Pipe Stainless Steel 2 rail. 32 mm diameter	11		40	8	36.000	41.000	38.500	0.2
55 203-0900	Wall rail,alum, or steel pipe, 32 or 38 mm diam, for handicapped			40	8	60.000	69.000	64.500	0.1
55 203-0995	Wall rail, stainless steel pipe, 38 mm diam., for handicapped.			40	8	30.000	35.000	32,500	0.2
55 206	RAILINGS,INDUSTRIAL:			18				02,000	
55 206-0010	Railings,industrial welded, 2 rail, 1.1 m high, 50 mm Angle rail,	UA	1.00 Seef Foreman 3.000 Seef Welder 1.000 Welder 1.000 Welding Machine	40	8	60.000	69.000	64,500	0.1
55 206-0500	Railings industrial welded, 2 rail, 1.1 m high, 38 mm pipe curved rails.	14	74	40	8	42.000	48.000	45.000	0.1
55 208	RAILINGS, ORNAMENTAL:								
55 208-0010	Railings, Ornamental Aluminium, bronze or stainless, average	LM	1 00 Skilled Worker 1 00 Power Tool	8	8	4.000	5.000	4.500	2.0
THE RESERVE TO A STATE OF THE PARTY.	Railings, Ornamental Hand-forged wrought iron, average	TI	1.00 7.000 7.00	6	8	3.000	3.000	3.000	2.6
	Railings, Ornamental Composite metal and wood or glass, average	LM	1 00 Skilled Worker	в	8	1.000	1.000	1.000	
55 300	GRATINGS & FLOOR PLATES:		1 00 Power Tool			1.000	1.000	1.000	8.0
55 302	CHECKERED PLATE:								
	Checkered plate 6 mm & 10 mm, bolted	KG	1.00 Steel Foretrain 3.000 Steel Welder 1.000 Welder	40	ā	1150.000	1323.000	1236.500	0.0
55 302-0100	Checkered plate 6 mm & 10 mm, welded	+ -	1 000 Weiding Machine	40		1750.000	2013.000	1001 500	0.0
5 302-0300	Charlested plate pil or trapph could and from 5	-			-		- CO	1881,500	0.0
	610 mm to 910 mm wide	SOM		40	0	8.000	9.000	8.500	1.0
	Checkered plate platforms, rectangular, 6 mm plate, no handrails included.	KG		40	8	1650.000	1898.000	1774.000	0.0
EUG-EVECU.	Checkered plate platforms, circular, 6 mm plate, no handrails included.		1	40	8	950.000	1093.000	1021.500	0.0
55 304	FLOOR GRATING, ALUMINIUM:								
55 304-1600	Floor Grating, Aluminium, Heavy duty, all extruded panels, 19 mm deep, 8.2 kg/m2	SOM	1.00 Steel Forerrun 3.000 Steel Welder 1.000 Welder 1.000 Welding Machine	40	в	85.000	98.000	91.500	0.0
55 304-1800	Floor Grating, Aluminium, Heavy duty, all extruded panels, 44 mm deep, 23.1 kg/m2			40	В	70.000	81.000	75,500	0.1
5 304-2400	Floor Grating, close spaced aluminium grating with vinys tread inserts	11		40	0	20.000	23.000	21.500	0.4
55 308	FLOOR GRATING, FIBERGLASS:							2210/24290 (I)	615/33
	Floor grating fiberglass reinforced polyester, fire retardant 25 mm x 100 mm grid, 38 mm thick	SOM	1.00 Steel Foreman 3.000 Steel Welder 1.000 Welder 1.000 Welding Machine	40	8	40.000	46.000	43,000	0.2
55 310	FLOOR GRATING PLANKS:		11333 11333 11333						
5 310-0010	Floor Grating Planks ALUMINIUM, 240 mm wide 14 ga., 50 mm rib	LW	1.00 Steel Foreman 3.000 Steel Walde: 1.000 Welder 1.000 Welding Machine	40	В	245.000	282.000	263,500	0.0
5 310-0600	Floor Grating Planks Galvanized steel, 240 mm wide 12 ga., 76 mm rib	1	Those tribung year-ure	40	В	245.000	282.000	263.500	0.00
515.00-907ASASONT	Floor Grating Planks stainless steel type 304 or 316,16 ga., 50 mm rib	++-		40	8	245.000	282.000	263.500	0.03
	FLOOR GRATING STEEL:	-				35000100		200.000	0.00
5 312-0010	Floor Grating, Steel for installing, on grade	SOM	1.00 Steel Forestan 3.000 Steel Welder 1.000 Welder 1.000 Welding Machine	40	6	65.000	75.000	70.000	0.12
5 212 D200	Floor Grating platforms, to 3.7 m high, rectangular	KG		40	6	1200.000	1380.000	1290.000	0.00
3 3 12 1300	Too Grang paronna, to 3.1 in right actaingular			180		850.000	978.000	914.000	0.00
	Floor Grating, platforms, to 3.7 m high, circular			40	8			7.55	
5 312 0400		50M		40	8	100-00-00	29.000	27.000	0.32
5 312 (400 I 5 312 2000 I	Floor Grating, platforms, to 3.7 m high, circular Floor Grating, Stainless Steel close spaced, on grade	in the second		40	8	25.000	29.000 75.000	27,000	95000
5 312 0400 F 5 312 2000 F 5 312 2100 F	Floor Grating, platforms, to 3.7 m high, circular Floor Grating, Stainless Steel, close spaced, on grade Floor Grating, Stainless steel, standard, 15.9 kg/m2	in the second		40	8	25.000 66.000	75.000	70.000	0.12
5 312 0400 F 5 312 2000 F 5 312 2100 F 5 312 2650 F	Floor Grating, platforms, to 3.7 m high, circular Floor Grating, Stainless Steel close spaced, on grade	in the second		40	8 8 8	25.000	12 S. 18 C.	2 233000000	0.12
5 312 0400 F 5 312 2000 F 5 312 2100 F 5 312 2650 F 5 314 (Floor Grating.platforms, to 3.7 m high.circular Floor Grating.Stainless Steel close spaced, on grade Floor Grating.Stainless steel, standard, 15.9 kg/m2 Floor Grating.Expanded steel, 20 kg/m2 GRATING FRAME:	504	1.00 Shiked Labour	40	8 8	25.000 65.000 65.000	75.000 75.000	70.000 70.000	0.12
5 312 0400 F 5 312 2000 F 5 312 2100 F 5 312 2650 F 5 314 010 0	Floor Grating, platforms, to 3.7 m high circular Floor Grating, Stainless Steel, close spaced, on grade Floor Grating, Stainless steel, standard, 15.9 kg/m2 Floor Grating, Expanded steel, 20 kg/m2 GRATING FRAME: Grating frame Aluminium, for gratings 25 mm to 40 mm deep	SOM	1.00 Power Tools	40 40 40	6 5 6	25.000 65.000 65.000	75.000 75.000 17.000	70.000 70.000 16.000	0.12
5 312 0400 1 5 312 2000 1 5 312 2100 1 5 312 2650 1 5 314 0010 0 5 314 0100 0	Floor Grating, platforms, to 3.7 m high circular Floor Grating, Stainless Steel, close spaced, on grade Floor Grating, Stainless steel, standard, 15.9 kg/m2 Floor Grating, Expanded steel, 20 kg/m2 GRATING FRAME: Grating frame Aluminium, for gratings 25 mm to 40 mm deep Grating frame ALUMINIUM corner, for gratings 25 mm to 40 mm deep	504		40	8 8 8	25.000 65.000 65.000	75.000 75.000	70.000 70.000	0.12
5 312 0400 5 312 2000 5 312 2000 5 312 2650 6 312 2650 6 314 0010 6 314	Floor Grating, platforms, to 3.7 m high circular Floor Grating, Stainless Steel, close spaced, or grade Floor Grating, Stainless steel, standard, 15.9 kg/m2 Floor Grating, Expanded steel, 20 kg/m2 GRATING FRAME: Grating frame Aluminium, for gratings 25 mm to 40 mm deep Grating frame ALUMINIUM corner, for gratings 25 mm to 40 mm deep TRENCH COVER:	SOM LM EA	1.00 Power Tpos	40 40 40	6 8 8	25.000 65.000 65.000	75.000 75.000 17.000	70.000 70.000 16.000	0.12
5 312 0400 5 312 2000 5 312 2000 5 312 2650 5 314 06 6 314 0010 6 314 0100 6 370 020	Floor Grating, platforms, to 3.7 m high circular Floor Grating, Stainless Steel, close spaced, on grade Floor Grating, Stainless steel, standard, 15.9 kg/m2 Floor Grating, Expanded steel, 20 kg/m2 GRATING FRAME: Grating frame Aluminium, for gratings 25 mm to 40 mm deep Grating frame ALUMINIUM corner, for gratings 25 mm to 40 mm deep TRENCH COVER: Trench cover cast iron grating with bar stops and angle frame to 460 mm wide	SOM	1.00 Power Tools	40 40 40	6 6 8 8	25.000 65.000 65.000	75.000 75.000 17.000	70.000 70.000 16.000	0.12 0.12 0.53 0.72
5 312 (400 f 5 312-2000 f 5 312-2000 f 5 312-2000 f 5 312-2650 f 5 314-0010 f 5 314-0100 f 5 370-0020 f 5 370-0100 f	Floor Grating, platforms, to 3.7 m high, circular Floor Grating, Stainless Steel, close spaced, on grade Floor Grating, Stainless steel, standard, 15.9 kg/m2 Floor Grating, Expanded steel, 20 kg/m2 GRATING FRAME: Grating frame Aluminium, for gratings 25 mm to 40 mm deep Grating frame ALUMINIUM corner, for gratings 25 mm to 40 mm deep TRENCH COVER: Trench cover cast iron grating with bar stops and angle frame to 460 mm wide Trench cover frame only (both sides of trench), 25 mm grating	SOM LM EA	1.00 Power Tools	40 40 40 8 8	6 6 8 8	25.000 65.000 65.000 15.000	75.000 76.000 17.000 13.000	70.000 70.000 16.000 12.000	0.12 0.12 0.53 0.72
5 312 (400 6 5 312 2000 6 5 312 2000 6 5 312 2000 6 5 312 2000 6 5 314 2000 6 5 314 2010 6 5 314 2010 6 5 314 2010 6 5 370 2000 6 5 370 2000 6 5 370 2000 6 5 370 2000 6 5 370 2000 6 5 370 2000 6 5 370 2000 6 5 370 2000 7 5 370	Floor Grating, platforms, to 3.7 m high circular Floor Grating, Stainless Steel, close spaced, on grade Floor Grating, Stainless steel, standard, 15.9 kg/m2 Floor Grating, Expanded steel, 20 kg/m2 GRATING FRAME: Grating frame Aluminium, for gratings 25 mm to 40 mm deep Grating frame ALUMINIUM corner, for gratings 25 mm to 40 mm deep TRENCH COVER: Trench cover cast iron grating with bar stops and angle frame to 460 mm wide	SOM LM EA	1.00 Power Tools	40 40 40 8 8	6 6 8 8	25.000 65.000 65.000 15.000 11.000	75.000 75.000 17.000 13.000	70.000 70.000 16.000 12.000	0.12 0.12 0.53 0.72 1.60
5 312 4400 5 312 2000 5 312 2000 5 312 2000 5 312 2000 5 312 2000 5 314 2000 6 314	Floor Grating, platforms, to 3.7 m high, circular Floor Grating, Stainless Steel, close spaced, on grade Floor Grating, Stainless steel, standard, 15.9 kg/m2 Floor Grating, Expanded steel, 20 kg/m2 GRATING FRAME: Grating frame Aluminium, for gratings 25 mm to 40 mm deep Grating frame ALUMINIUM corner, for gratings 25 mm to 40 mm deep TRENCH COVER: Trench cover cast iron grating with bar stops and angle frame to 460 mm wide Trench cover frame only (both sides of trench), 25 mm grating	SOM LM EA	1.00 Power Tools	40 40 40 8 8 8	6 6 8 8	25.000 65.000 65.000 15.000 11.000 5.000	75.000 75.000 17.000 13.000 6.000	70.000 70.000 16.000 12.000 5.500	0.12 0.12 0.53 0.72 1.60
5 312 4400 6 312 2000 6 312 2000 6 312 2000 6 5 312 2000 6 5 312 2000 6 5 314 2000 6 5 314 2000 6 5 314 2000 6 5 370 2000	Floor Grating, platforms, to 3.7 m high circular Floor Grating, Stainless Steel, close spaced, or grade Floor Grating, Stainless Steel, standard, 15.9 kg/m2 Floor Grating, Expanded steel, 20 kg/m2 GRATING FRAME: Grating frame Aluminium, for gratings 25 mm to 40 mm deep Grating frame ALUMINIUM corner, for gratings 25 mm to 40 mm deep TRENCH COVER: Trench cover cast iron grating with bar stops and angle frame to 460 mm wide Trench cover frame only (both sides of trench), 25 mm grating Trench cover frame only (both sides of trench), 50 mm grating	SOM LM EA	1.00 Power Tools	40 40 40 8 8 8	6 6 8 8 8	25.000 65.000 65.000 15.000 11.000 5.000	75.000 75.000 17.000 13.000 6.000	70.000 70.000 16.000 12.000 5.500	0.12 0.12 0.53 0.72 1.60
5 312 4400 6 5 312 2100 6 5 312 2100 6 5 312 2100 6 5 312 2100 6 5 314 200 6 5 314 200 6 5 314 200 6 5 314 200 7 5 370 200	Floor Grating, platforms, to 3.7 m high circular Floor Grating, Stainless Steel, close spaced, or grade Floor Grating, Stainless steel, standard, 15.9 kg/m2 Floor Grating, Expanded steel, 20 kg/m2 GRATING FRAME: Grating frame Aluminium, for gratings 25 mm to 40 mm deep Grating frame ALUMINIUM corner, for gratings 25 mm to 40 mm deep TRENCH COVER: Trench cover cast iron grating with bar stops and angle frame to 460 mm wide Trench cover frame only (both sides of trench), 25 mm grating Trench cover frame only (both sides of trench), 50 mm grating CASTINGS	SOM LM EA	1.00 Power Tools	40 40 40 8 8 8	6 6 8 8 6	25.000 65.000 65.000 15.000 11.000 5.000	75.000 75.000 17.000 13.000 6.000	70.000 70.000 16.000 12.000 5.500	0.12 0.12 0.53 0.72 1.60
5 312 4400 5 312 2000 5 312 2000 5 312 2000 5 312 2000 5 312 2050 5 314 010 5 314 010 5 314 010 5 370-0100 5 370-0100 5 370-0100 5 370-0100 5 370-0100 6 404-0000 6 404-0000	Floor Grating, platforms, to 3.7 m high circular Floor Grating, Stainless Steel, close spaced, or grade Floor Grating, Stainless steel, standard, 15.9 kg/m2 Floor Grating, Expanded steel, 20 kg/m2 GRATING FRAME: Grating frame Aluminium, for gratings 25 mm to 40 mm deep Grating frame ALUMINIUM corner, for gratings 25 mm to 40 mm deep TRENCH COVER: Trench cover cast iron grating with bar stops and angle frame to 460 mm wide Trench cover frame only (both sides of trench), 25 mm grating Trench cover frame only (both sides of trench), 50 mm grating CASTINGS CONSTRUCTION CASTINGS:	SOM LM EA	1.00 Stelled Labour 1.00 Stelled Labour 1.00 Stelled Foremen 3.000 Stell Weider 1.000 Weider	8 8 8 8	6 6 8 8 8	25.000 65.000 65.000 15.000 11.000 5.000	75.000 75.000 17.000 13.000 6.000	70.000 70.000 16.000 12.000 5.500	0.32 0.12 0.12 0.53 0.72 1.600 0.666 1.000
55 312 0400 in 55 312 2000 in 55 312 2000 in 55 312 2000 in 55 312 2000 in 55 314 2000 in 55 314 2000 in 55 314 2000 in 55 314 2000 in 55 370	Floor Grating, platforms, to 3.7 m high circular Floor Grating, Stainless Steel, close spaced, on grade Floor Grating, Stainless steel, standard, 15.9 kg/m2 Floor Grating, Expanded steel, 20 kg/m2 GRATING FRAME: Grating frame Aluminium, for gratings 25 mm to 40 mm deep Grating frame Aluminium, for gratings 25 mm to 40 mm deep TRENCH COVER: Trench cover cost iron grating with bar stops and angle frame to 460 mm wide Trench cover frame only (both sides of trench), 25 mm grating Trench cover frame only (both sides of trench), 50 mm grating CASTINGS CONSTRUCTION CASTINGS: Manhole covers and frames see div., 027-152	SOM LM EA	1.00 Shiled Labour 1.00 Shiled Labour 1.00 Sheet Foremen 3.000 Sheet Webler	#0 #40 #40 #5 #5 #5 #5 #5 #5 #5 #5 #5 #5 #5 #5 #5	8	25,000 65,000 65,000 15,000 11,000 5,000 12,000 6,000	75.000 75.000 17.000 13.000 6.000 14.000 9.000	70,000 70,000 16,000 12,000 5,500 13,000 8,500	0.12 0.12 0.53 0.72 1.60 0.66 1.00

VAROT.		_	14 20 20 20 20 20 20 20 20 20 20 20 20 20			10110	Tacmore /	Carrier V	10010100000000
CODE	ITEM DESCRIPTION	UNIT	STRUCTURE	HOURS	EQUIP.	D. O. MIN.	D. O. MAX.	D. O. AVRG	AVRG.
055 404-0600	Miscellaneous C.I. castings,light sections	ка	1.00 Steel Foreman 3.000 Steel Welder 1.000 Welder 1.000 Welding Machine	40	8	1150.000	1323,000	1236.500	0.00
055 404-1100	Miscellaneous C.I. castings, Heavy sections			40	8	1600.000	1840.000	1720.000	0.00
055 500	METAL SPECIALTIES					1000000			
055 504	LAMP POSTS: 7 Lipting								
055 504-0010	Lamp Posts, 2,15 m high, aluminium or mild steel	EA	1.00 Skilled Labour 1.00 Power Tools	8	8	12.000	14.000	13,000	0.66
055 508	WINDOW GUARDS: عبدالسي المناعدة		Annual Property of the Parket						
055 508-0020	Window guard, Permanent, expanded metal, steel angle frame, steel bars, 13 mm x 13 mm, spaced 130 mm O.C.	SCM	1.00 Steel Foreman 3.000 Steel Welder 1.000 Welder 1.000 Welding Machine	40	6	24.000	28.000	26.000	0.33
055 508-0070	Window guard, steel, Pivoted or projected, including steel angle frame, steel bars 13 mm x 13 mm, spaced, 130 mm O.C.			40	8	15.000	17.000	16.000	0.53
055 508-0500	Window Guards, Woven wire units, 10 mm chan, frame, 1.2 m x 1.8 m openning.	1		40	8	30.000	35.000	32.500	0.26
058	EXPANSION CONTROL	- 11							
058 100	EXP. COVER ASSEMBLIES:								
058 104	EXPANSION JOINT ASSEMBLIES Custom Units:								
	Floor cover assemblies, up to 50 mm space, aluminium, bronze or stainless	LM	1 00 Skilled Labour 1 00 Power Tools	8	8	9.000	10.000	9.500	0.889
058 104-1100	Wall and ceiling assemblies, up to 50 mm space, aluminium, bronze or stainless			8	а	9.000	10.000	9.500	0.889
058 104-1400	Floor to wall assemblies, 25 mm space, aluminium, bronze or stainless			8	8	9.000	10.000	9.500	0.889
058 104-1700	Gym floor angle covers.atuminium, 76 mm x 76 mm or 76 mm x 100 mm angle.			8	8	11.000	13.000	12.000	0.727
058 104-2000	Roof closures, aluminium, 25 mm space, flat roof			8	8	13.000	15.000	14.000	0.615
058 104-2300	Roof closures,Roof to wall, aluminium, 25 mm space			6	8	13.000	15.000	14,000	0.615







We Deliver ...

16 world renowned industry trade marks, clustered in a unique and glamorous fashion under the umbrella of **Cp** Holding.

Initiated, formulated, and nourished by capital plus to establish the first real estate factory ever been. Its prime objective is "building the earth" and global development, and its tools are ingenious human brains, youthful spirits and resourceful backgrounds.

45 **Projects** between "built" and "would be", all represent evident landmarks, marking a new era in the history of development.

Left to speak for itself, **Cp** vision and projects are currently hitting new frontiers, and sprawling to conclude unique territory in most every country of urban significance; London, Dubai, Riyadh, Beirut, Manama, to name a few.





Division 6 Wood & Plastics

Division 6.. Wood & Plastics..

Estimating Tips:

060 Fasteners & Adhesives:

Common to any wood framed structure are the accessory connector items such as screws, nails, adhesives, hangers, connector plates, straps, and angles that should be taken off by the piece.

Nails requirement for wood structures varies with various kinds of lumber, estimator shall be aware of element needs for nails quality and types.

061 Rough Carpentry:

Lumber is a traded commodity and therefore sensitive to supply and demand in the market place. It is advisable to call local suppliers for the latest market pricing.

Waste is an issue of concern at the quantity taken off for any area of construction.

The estimator should ensure that the costs of all wood materials are included in the final estimate.

Modern tools, such as electric drills, sanders, electric hand saws play a major part in reducing labor costs and speed productivity.

062 Finish Carpentry:

It is necessary to consider the grade of work-manship when estimating labor costs for erecting millwork and interior finish. It is important to notify that finish carpentry is not only shown in this division as per CSI format. Finish carpentry is spread in other four (4) divisions detailed as follows:

Wood siding is detailed in Div. 7 Doors & Windows are detailed in Div. 8 Specialties Div 10 includes tackboards, toilets partitions, folding partitions, bolts, etc.. While Div 11 includes wood cabinets and shelving. Div 12 deals with wood furnishings, seating, etc..

CSI				CREW	CREW	CREW			D. O.	AVRG.
CODE	ITEM DESCRIPTION	U	TIN	STRUCTURE	HOURS	EQUIP	D. O. MIN	D. O. MAX.	AVRG.	E. H.
061	ROUGH CARPENTRY						4			
061 100	WOOD FRAMING									
061 128	FRAMING, WALLS:						question .			
61 128-6120	Framing walls,wood studs, 2450 mm high wall, 50 mm x 75 mm	C	UM	0.125 Labor Foreman 2.000 Carperters 1,000 Common Laborer 1,000 Power Tools	25.		8 1,302	1.500	1,401	6.14
				0.125 Labor Foreman						
61 128-6125	Framing walls, woodstuds, 2450 mm high wall, 50 mm x 75 mm, pneumatic nailed			2.000 Carpenters 1.000 Common Laborer 1.000 Small Compressor w/ 2 Prieumatic Nation 1.000 Power Tools	25	3	6 1.449	2.000	1,725	11.04
61 128-6140	Framing walls,wood studs, 2450 mm high wall, 50 mm x 100 mm			0.125 Labor Foreman 2.000 Carpenters 1.000 Common Laborer 1.000 Power Tools	25		8 1,736	2,000	1,868	4.60
61 128-6145	Framing walts, wood studs, 2450 mm high walt, 50 mm x 100 mm, pneumatic nailed			0.125 Labor Foreman 2.000 Carpenters 1.000 Common Laborer 1.000 Small Compressor w/ 2 Preumatic Nailer 1.000 Power Tools	25	23	6 1.933	2.000	1,967	8.27
61 128-6160	Framing walls, wood studs, 2450 mm high wall, 50 mm x 150 mm,	4		0.125 Labor Foreman 2.000 Carpenters 1.000 Common Laborer 1.000 Power Tools	25		8 2.161	2.500	2.331	3.70
61 128-6160	Framing walls, wood studs, 2450 mm high wall, 50 mm x 150 mm, pneumatic nailed			0.125 Labor Foremen 2.000 Carpenters 1.000 Common Laborer 1.000 Small Compressor w/2 Preumatic Nailer 1.000 Power Tools	25	9	6 2.406	3.000	2.703	6.65
61 128-6180	Framing walls, wood studs, 2450 mm high wall, 75 mm x 100 mm.			0.125 Labor Foreman 2.000 Carpenters 1.000 Common Laborer 1.000 Power Tools	25		1.731	2.000	1.866	4.62
31 128-6185	Framing walls, wood studs, 2450 mm high wall, 76 mm x 100 mm, pneumatic nailed			0.125 Labor Foreman 2.000 Cerpenters 1.000 Common Laborer 1.000 Small Compressor w/2 Pneumatic Nailer 1.000 Power Tools	25	,	1,995	2.500	2.248	6.02
1 128-8200	Framing stud wall, 3650 mm high wall, 50 x 100mm pneumatic nailed				25	,	1.866	2.000	1.933	8.57
1 128-8220	Framing stud wall,1825 mm high, 50 x 100mm, pneumatic nailed				25	1	1.389	2.000	1.695	11.51
1 128-8240	Framing stud wall, stub wall, 925 mm high, 50 x 100mm				25	1	1.042	1.500	1,271	15.35
1 128-8250	Framing stud wall, second story 2450 mm high, 50 x 100mm				25	,	1.649	2.000	1.825	9.70
61 130	FURRING:									
1 130-0010	Furring Wood strips, 25 mm x 50 mm, on wood walls, pneumatic, nailed	U		0.125 Labor Foreman 1.000 Carpenters 1.000 Common Laborer 1.000 Small Compressor w/2 Pneumatic Nailer 1.000 Power Tools	17	31	270.000	311.000	290.500	0.05
130-0300	Furring Wood strips, 25 mm x 50 mm, on mesonry walls, nails driven in joints			0.125 Labor Foreman 1.000 Carpenter 1.000 Common Laborer 1.000 Power Tools	. 17		185.000	213.000	199.000	0.04
1 130-0400	Furring Wood strips, 25 mm x 50 mm, on concrete walls nalled in wood plugs				17	1 9	85.000	98.000	91.500	0.09
1 130-0600	Furring Wood strips, 25 mm x 75 mm, nailed on wood walls	\neg			17		210.000	242.000	226.000	0.03
1 130-0700	Furring Wood strips, 25 mm x 75 mm, on masonry walls,				17		90.000	104.000	97.000	0.08
1 130-0800	nalled in wood plugs Furring Wood strips, 25 mm x 75 mm; on concrete walls	-+	-		17		2547780	98.000	91,500	0.09
	Furring Wood strips, 25 mm x 75 mm, on wood ceilings				17			144,000	134,500	0.06
	Furring Wood strips, 25 mm, x 75 mm, on concrete ceilings	-++	1		17	9	2000000	78.000	73.000	0.11
60 9500	GROUNDS: (A piece of wood for attachment)				1					
	Grounds for plaster, 20 mm deep on masonry	LM	. 1	0.125 Labor Foreman 1.000 Carpenter 1.000 Common Laborer	17		100.000	115.000	107.500	0.08
1 132-0600	Grounds for plaster, 20 mm deep on concrete			1,600 Power Tools	17	-	65.000	75.000	70.000	0.12
	Grounds for plaster, 20 mm deep on metal lath			1	17		80.000	92,000	86.000	0.10
	INSULATION See Division 072									-200000
SE WILLIAM .	PARTITIONS: Wood stud with single bottom plate and double	top plate								
1 138-0180	Partitions, wood stud with bottom plate & double top plate, 50 mm x 100 mm, 2.45 m high, stud 300 mm O.C.	U		0.125 Labor Foreman 1,000 Carpenters 1,000 Common Laborer 1,000 Power Tools	25	ŧ	21.698	25.000	23,349	0.36
	Partitions,wood stud with bottom plate & double top plate, 50 mm x 100 mm, 2.45 mm high,stud 400 mm O.C.			0.125 Labor Foreman	25		24.375	28.000	26.188	0.32
1 130-0360	Partitions, wood stud with bottom plate & double top plate, 50 mm x 100 mm, 3 m high, stud 300 mm O.C.	LM	- 1	1,000 Carpenters 1,000 Common Laborer 1,000 Power Tools	25	1	20.509	24.000	22.255	0.39
	Partitions, wood stud with bottom plate & double top plate,	1 1	- 1		25	- 1	23.259	27.000	25.130	0.34

	N 06: WOOD & PLASTICS	MATERIAL STREET				NO ENGINEE				SERVICE OF THE PARTY OF THE PAR
CODE	ITEM DESCRIPTION	UI	NIT	CREW STRUCTURE	HOURS	EQUIP.	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
61 138-0580	50 mm x 100 mm, 3.65 m high, stud 300 mm O.C.				25	6	17.619	20.000	18.810	0,4
61 138-0600	50 mm x 100 mm, 3.65 m high, stud 400 mm O.C.				25	ě	20.333	23.000	21,667	0.3
61 138-0780	Partitions, wood stud with bottom plate & double top plate, 50 mm x 150 mm, 2.45 m high, stud 300 mm O.C.				25	8	19.144	22.000	20.572	0.4
61 138-0800	Partitions, wood stud with bottom plate & double top plate, 50 mm x 150 mm, 2,45 m high, stud 400 mm O.C.				25	8	21.533	25.000	23.267	0.3
061 138-0980	Partitions, wood stud with bottom plate & double top plate, 50 mm x 150 mm, 3 m high, stud 300 mm O.C.				25	ē	18.973	22.000	20.487	0.42
061 138-1000	Partitions would exist with bottom plate & double for plate				25	8	21.374	25.000	23,187	0.37
061 138-1180	Partitions, wood stud with bottom plate & double top plate.				25	8	15.553	18.000	16 777	0,5
061 138-1205	50 mm x 150 mm, 3.65 m high, stud 300 mm Q.C. Partitions, wood stud with bottom plate & double top plate, 50 mm x 150 mm, 3.65 m high, stud 400 mm Q.C., pneumatic nalled			1.125 Labor Foreman 2.000 Carpenters 1.000 Common Laborer 1.000 Small Compressor w/2 Pneumatic Nailer 1.000 Power Tools	25	16	18.663	21,000	19.832	0,8
061 138-1400	Horizontal blocking 50x100 mm added to stud wall			0 125 Labor Foreman 2 000 Carpenters 1 000 Common Laborer 1 000 Power Tools	25	8	200.000	230.000	215.000	0.04
061 150	SHEATHING:									
61 154-0030	Plywood on roof,C&D, exterior glued, "CDX", 8 mm thick	SC	MC	0 125 Labor Foremen 2 000 Carpenters 1 000 Common Laborer 1 000 Power Tools	25	6	158.400	182,000	170.200	0.05
061 154-0055	Plywood on roof, "CDX 1 10 mm thick, pneumatic nailed			0.125 Labor Foreman 2.000 Carpenters 1.000 Common Laborer 1.000 Small Compressor w/2 Pneumatic Natier 1.000 Power Tools	25	16	184.320	212.000	198.160	0.08
61 154-0305	Plywood on roof, "CDX", 20 mm thick, pneumatic nailed				25	16	169.920	195.000	182.460	0.09
61 154-0500	Plywood on stud walls with exterior "CDX", 10 mm thick			0.125 Labor Foreman 2.000 Carpenters 1.000 Common Laborer 1.000 Power Tools	25	8	123,840	142.000	132,920	0.06
61 154-0600	Plywood on stud walls with exterior CDX, 13 mm thick				26	8	118.080	136.000	127.040	0.06
61 154-0700	Plywood on stud walls with exterior CDX, 16 mm thick				28		109.440	126.000	117.720	0.07
61 154-0800	Plywood on stud walls with exterior CDX, 20 mm thick				28	8	97,920	113,000	105.460	0.08
61 154-2400	Sheathing Boards 25 mm x 150 mm on stud walls,laid regular, on straight regular walls				28		60.000	69.000	64.500	0.13
61 154-2500	Sheathing Boards 25 mm x 150 mm on stud walls, laid diagonal, on straight regular walls				28	.8	52.500	60.000	56.250	0.15
61 154-2700	Sheathing Boards 25 mmx 200 mm on stud walls,laid regular, on straight, regular walls				28	8	69.000	80.000	74.500	0.1
61 154-2800	Sheathing Boards 25 mm x 200 mm on stud walls, laid diagonal on straight, regular walls				26	В	57,750	66.000	61.875	0.10
61 154-2820	Sneathing Boards 25 mm x 150 mm on stud walls, laid regular, on irregular walls regular walls				26	8	48.000	55.000	51,500	0.16
61 154-2850	Board meaning continuous to 12 that are at death and				26	8	100.000	115.000	107,500	0.08
61 154-3000	Board, wood fiber, regular, no vapor barrier, 13 mm thick,on stud wall				28	8	105.000	121.000	113.000	0.07
	Board, wood fiber, regular, no vapor barrier, 16 mm thick,on stud wall				28	8	105.000	121.000	113 000	0.07
61 160	Board, wood fiber, Asphalt impregnated, 20 mm thick, on stud wall SUBFLOOR:		_		28	8	105.000	121.000	113.000	0.07
61 160-0105	Subfloor, plywood, CDX, 16 mm thick, pneumatic nailed, blocking not included	SOM	Fic	0.125 Labor Foreman 2.000 Carpenters 1.000 Common Laborer 1.000 Small Compressor w/2 Pneumatic Naties 1.000 Power Tools	25	16	178.560	205.000	191,780	0.09
S1 160-0200	Subfloor, plywood, CDX, 20 mm thick			0.125 Labor Foremen 2.000 Carpenters 1.000 Common Laborer 1.000 Power Tools	25	8	120.960	139.000	129.980	0.06
1 160-0205	Subfloor, plywood, CDX, 20 mm thick, pneumatic nalled to floor joists, no blocking			0 125 Labor Foremen 2 000 Carpenters 1,000 Centron Laborer 1,000 Small Compressor w/2 Pneumatic Natier 1,000 Power Tools	25	8	144.000	166.000	155.000	0,0
1 160-0210	Subfloor, plywood, CDX, 20 mm thick, pneumatic nailed to floor joists, and blocking pieces vertical to floor joists at 1.2 meter specing	SOM	1	0.125 Labor Foreman 2.000 Carpentars 1.000 Common Laborer 1.000 Small Compressor w/2 Pneumatic Natio 1.000 Power Tools	25	В	74.880	86.000	80.440	0.10
1 160-1100	Subfloor, wood fiber tongue & groove, 600 x 2450 mm planks, 25 mm thick				25	5	96.000	110.000	103.000	Q 65
61 168	SUBFLOOR UNDERLAYMENT:			10.000				1		
31 168-0015	Underlayment, plywood grade, 10 mm thick, pneumatic nailed	som	El-	0 125 Labor Foreman 2,000 Cerpenters 1,000 Common Laborér 1,000 Smail Compressor w/2 Pneumatic Natier	25	16	184.320	212,000	198,160	0.08

CSI	N 06 : WOOD & PLASTICS		CREW	CREW	CRE	v	War and the same	D. O.	AVRG.
CODE	ITEM DESCRIPTION	רואט	STRUCTURE	HOURS	EQUI	ID O MIR	N. D. O. MAX.	AVRG.	E. H.
61 168-0200	Underlayment, plywood grade, 16 mm thick		0.125 Labor Foreman 2.000 Carpenters 1 000 Common Laborer 1.000 Power Tools	25		8 144.00	166.000	155.000	0.05
61 168-0205	Underlayment, phywood grade, 16 mm thick, pneumatic nailed		0 125 Labor Foreman 2 000 Carpenters 1,000 Common Laborer 1,000 Small Compressor w/2 Pneumatic Nailer 1,000 Power Tools	25		16 178.56	0 205.000	191,780	0.09
61 168-0600	Underlayment, particle board, 13 mm thick		0.125 Labor Forernan 2.000 Carpenters 1.000 Common Laborer 1.000 Power Tools	25		8 144.00	0 166.000	155.000	0.05
61 168-0900	Underlayment, particle board, 20 mm thick		0.0	25		8 135.00	0 155.000	145.000	0.05
61 168-0905	Underlayment, particle board, 20 mm thick; pneumatic nailed		0.125 Labor Foremen 2.000 Carpenters 1.000 Common Laborer 1.000 Small Compressor w/2 Pneumatic Neller 1.000 Power Tools	25		16 161.28	0 185.000	173.140	0.09
61 168-1100	Underlayment, hardboard, 1225 mm x 1225 mm, 5 mm thick		0 125 Labor Foreman 2 000 Carpenters 1 000 Common Laborer 1 000 Power Tools	25		8 146.88	169.000	157.940	0.05
061 250	WOOD DECKING								
061 258	ROOF DECKS:	N							
61 258-0400	Roof decks, wood planks, 75 mm thick	SOM	0.125 Labor Foreman 2.000 Carpenters 1.000 Common Laborer 1.000 Power Tools	25		8 45.00	52,000	48.500	0.170
61 258-0500	Roof decks, wood planks,100 mm thick	•	*	25		8 36.00	41.000	38.500	0.22
061 259	DECK, WOOD, PRESSURE TREATED LUMBER:								
61 259-0100	Pressure treated lumber railings and trim, 25 mm x 100 mm	LM	0.125 Labor Foreman 1.000 Carpenters 1.000 Common Laborer 1.000 Power Tools	16,125		8 100.000	115.000	107.500	0.08
61 259-0300	Pressure treated lumber railings and trim, 50 mm x 150 mm			16 125		8 100.000	115.000	107,500	0.08
51 259-0400	Pressure treated decking, 25 mm x 100 mm	SQM		16.125		8 22.500	26.000	24.250	0.35
61 259-0600	Pressure treated decking, 50 mm x 150 mm			16.125		8 27.000	31.000	29.000	0.29
061 280	MINERAL FIBER CEMENT PANELS	2							
061 281	MINERAL FIBER CEMENT PANELS: Including panels, fasteners,	acces		t					
61 280-0130	Mineral fiber cement panels, architectural, textured finish, 3 mm thru 10 mm thick	SQM	0.125 Labor Foremen 3,000 Skilled Workers 2,000 Common Laborers 2,000 Power Tools	41	i i	60.000	69.000	64.500	0.26
61 280-0350	Mineral fiber cement panels, architectural, textured finish, 16 mm thick			41	13	38.000	44.000	41,000	0.42
61 280-2000	Mineral fiber cement panels, flat sheets 3 mm thick			41	1 10	144.000	166.000	155,000	0.11
81 280-2100	Mineral fiber cement panels, flat sheets 6 mm thick			41		124.000	143.000	133.500	0.12
1 280-2200	Mineral fiber cement panels, flat sheets 10 mm thick			41		105.000	121.000	113.000	0.15
	Mineral fiber cement panels, flat sheets 16 mm thick			41		96.000	110,000	103.000	0.16
	Mineral fiber cement, sandwich panel, glasweid face and back 25 mm thick, perlite or polyurethane core			41	9	8.000	44.000	41.000	0.42
	Mineral fiber cement, sandwich panel, glasweld face and back 50 mm thick, perlite, polyurethane core			41	3	6 38.000	44.000	41.000	0.42
	WOOD-METAL SYSTEMS	- Land		-					-
61 508	STRUCTURAL JOISTS:								
	Fabricated joists I (eye beam)shape with wood flanges, plywood webs, incl. bridging & blocking, panels 600 mm O.C. 4.6 m to 7.3 m span, 244 kg/m² live load.	SQM Fir	0.125 Labor Foremen 2.000 Carpenters 3.000 Common Laborer 1.000 Power Tools	41		s 25 0.000	286.000	269.000	0.032
1 208-12001	Fabricated joists I (eye beam)shape with wood flanges, plywood webs, incl. bridging & blocking, panels 600 mm O.C. 7.3 m to 9.2 m span, 269 kg/m² live load.	-	*	41		250.000	288 000	269.000	0.032
	GLUED LAMINATED CONST.								
61 804	LAMINATED FRAMING:	,							
	Laminated roof beams, no decking, 13.6 kg, short term live load, 6.8 kg dead load, straight,6 m clear span, 2.45 m O.C.	SQM Fit	0.500 Labor Foreman 4.000 Carpenters 1.000 Equip. Oper. (crane) 1.000 Hyd. Crane, 11 Ton 2.000 Power Tools	44	4	70.000	81,000	75.500	0.343
	Laminated roof beams, no decking, 13.6 kg, short term live load, 6.8 kg dead load, straight, 6.1 m clear span, 4.8 m O.C.			44	1	55.000	63.000	59.000	0.436
- 1	LAMINATED ROOF DECK:	-							10.73
1 808-0100	Laminated roof deck pine, cedar, or fir wood, 100 mm thick	SOM	0.125 Labor Foreman 2.000 Cerpenters 1.000 Common Laborer 1.000 Power Tools	25		36,000	41,000	38.500	0.222
62	FINISH CARPENTRY					II/C			
62 200	MILLWORK MOLDINGS								
62 200	MOLDINGS, BASE:					CTIL LYLL			Total Sec
	Molding base, pine, 14 mm x 90 mm, straight job, no cutting. minimal number of miters	LM	0.125 Labor Foreman 1,000 Carpenters	8	3	55.000	63,000	59.000	0.145
ľ	The second of little of the second of the se		1.000 Power Tools	1	-				

			CREW	CREW	CREW			D. O.	AVRG.
CODE	ITEM DESCRIPTION	UNIT	STRUCTURE	HOURS	EQUIP.		D. O. MAX.	AVRG.	E. H.
62 200-0550	Molding base, pine, 14 mm x 110 mm	1000	W	9	6	45.000	52,000	48.500	0.17
62 212	MOLDING, CASINGS:		To a De Colone Southern						
82 212-0750	Molded pine casing 17 mm x 90 mm	LM	0.125 Labor Foreman 1.000 Carpenters 1.000 Power Tooks	9	g	50.000	58.000	54.000	0.16
62 216	MOLDING, CEILINGS:								
62 216-1200	Cornice molding, pine, 14 mm x 44 mm, straight	LM	0.125 Labor Foreman 1,000 Carpenters 1,000 Power Tooks	9	ē	70.000	81.000	75.500	0.11
52 216-1300	Cornice molding, pine, 14 mm x 57 mm			9	8	65,000	75.000	70.000	0.12
52 216-2400	Cornice molding,cove, pine, 14 mm x 44 mm			9	8	55.000	63.000	59.000	0.14
52 216-2600	Crown mokling, pine, 14 mm x 90 mm			9	8	50.000	58.000	54.000	0.16
52 216-2700	Crown molding, pine, 17 mm x 117 mm		•	.9	8	45,000	52.000	48.500	0.17
62 220	MOLDINGS, EXTERIOR:	- VI						1	
62 220-1500	Moldings exterior, cornice, boards, pine, 25 mm x 50 mm	LM	0 125 Labor Foremen 1 000 Carpenters 1 000 Power Tools	9	8	70.000	81.000	75.500	0,11
32 220-1700	Moldings exterior, cornice, boards, pine, 25 mm x 150 mm			9	8	56.000	64.000	60,000	0.14
	Molding exterior, cornice, boards, pine, 25 mm x 300 mm			9	8	36.000	41.000	38.500	0.22
	Corner board pine 25 mm x 150 mm			9	8	45.000	52.000	48.500	0.17
	Moldings exterior, fascia. pine, 25 mm x 200 mm			9	ē	50.000	58.000	54.000	0.16
	Moldings exterior, trim or crown, pine casing		1	9	8	56.000	64.000	60.000	0.14
62 224	MOLDINGS, TRIM:								
	Astragal, pine, 33 mm x 56 mm	LM	0 125 Labor Foreman 1 000 Carpenters 1 000 Power Tools	9	8	55.000	63.000	59.000	0.14
52 224-0800	Chair rail, 16 mm x 64 mm		1,000 1000	9	8	56.000	64,000	60.000	0.14
	Chair rail, 16 mm x 90 mm			9	8	50.000	58.000	54.000	0.16
62 224-1000	Closet pole,wood, 30 mm diameter, up to 2 meter long.			9	8	48.000	55.000	51.500	0.16
	including supports		-	9	8	60.000	69.000	64.500	0.13
Contraction of the Contraction	Closet pole, wood, half round, stock pine, 6 mm x 13 mm	++-		-	B	56.000		60.000	0.14
	Closet pole, half round, stock pine, 13 mm x 25 mm	-		9	8	18.000	21.000	19.500	0.4
	Handrall, single piece, pine or fir 36 mm x 44 mm, on wall brackets			9	-	13.000	- VE	14.000	0.6
	Handrall, single piece, pine or fir 38 mm x 44 mm, on metal balustrade	++-		9	-	32000000	272.122.00	60.000	0.14
	Lattice frim, wood 6 mm x 44 mm	-			8	56 000	200700000	60.000	0.14
William Cong	Molding trim miscellaneous, pine or cedar, 25 mm x 25 mm	-		9		45.000	0.00000000	48.500	0.17
SPAN CARLENDER	Molding trim miscellaneous, walnut, nominal 25 mm x 25 mm	++-		9	18	40.000		43.000	0.20
MIRLORIU IIIEE	Molding trim miscellaneous, teak, nominal 25 mm x 75 mm	-	 	9		56.000	17.00000000	60.000	0.14
AND COMPANY DESIGN	Molding trim miscellaneous, quarter round, pine, 6 mm x 6 mm	-		9	-	6.000	STATE OF THE PARTY OF	6,500	1.33
	Wainscot moiding, 29 mm x 14 mm, 600 mm high	•				0.000	7.000	0.500	1,00
062 228	MOLDINGS, WINDOW AND DOOR		0.125 Labor Foreman	-	1	-	-	_	
62 228-2800	Door moldings, decorative, 29 mm wide	LM	1,000 Carpenters 1,000 Power Tools			42.000		45.000	0.19
	Door trim set, 1 head and 2 sides, pine, 64 mm wide	++-		9		1000000000	F-300887700	32.500 69.000	0.13
No.	Glass bead,pine 6 mm x 17 mm		-		65	64.000	AUCTOMORS	69.000	0.13
	Glass bead,pine 10 mm x 13 mm			9	-			64.500	0.13
	Glass bead,pine 10 mm x 22 mm		-	9	-			38.500	0.10
62 228-5000	Stool caps,pine, 17mm x 90mm	+	0.125 Labor Foreman	9		36.000	41.000	36.500	0.2
62 228-5300	Threshold,oak,914mm long,16 mm x 90 mm	EA	1.000 Carpenters 1.000 Power Tools	9	В	26.000	30.000	28.000	0.30
62 228-5400	Threshold,oak, 914 mm long, 38 mm x 200 mm	EA	7,000 7,000	- 1	8	14.000	16.000	15.000	0.5
	Window trim sets, including casings header stops stool and	OPENING	3	9	В	4.000	5.000	4.500	2.0
62 228-5900	apron, 64 mm wae, minimum, whaow size 1 m x 1.5 m	2.4(11)					1000		V
062 300	SHELVING	10-01-0							
062 304	SHELVING:	1	0.125 Labor Foreman					100.00	V
62 304-0600	Shelving, plywood, 20 mm thick with lumber edge, 300 mm wide	LM	1,000 Carpenters 1,000 Power Tools	5		200000000		21.500	0.40
and strain for the control	Shelving, plywood, 20 mm thick with lumber edge, 600 mm wide	- 2			-	100	(100,000	16,000	0.5
62 304-0900	Shelving, bookcase, clear grade pine, shelves 300 mm, O.C., 200 mm deep	SQM			-	-	1-7/2/20	6.500	1.3
62 304-1000	Shelving, bookcase, clear grade pine, shelves 300 mm, O.C., 300 mm deep	- 12			-	1/21/		6.500	1,3
62 304-1200	Shelving, adjustable closet rod and shelf, 300 mm wide, 914 mm long	EA			-	No. of the last of		16.000	0.0
62 304-1300	Shelving, adjustable closet rod and shelf, 300 mm wide, 2.4m long		· ·		9 8	9.000	15,000	5,5,	34
062 400	PLASTIC LAMINATE								
062 404	CONVECTOR COVERS:	-	Te and the control of			-	k		
	Convector covers, laminated plastic on 19 mm thick particle board, 300 mm wide,	LM	0.125 Labor Foreman 1.000 Carpenters	10		3.000	3.000	3,000	2.6

CODE	ITEM DESCRIPTION	UNIT		REW JCTURE	HOURS	EQU	900	D. O. MIN.	D. O. MAX,	D. O. AVRG.	AVRG. E. H.
062 408	COUNTER TOP:										
62 408-0100	Counter Top, plastic laminated, 600 mm wide w/backsplash, Average	LM	0.125 Labor Fo 1.000 Carpente 1.000 Power Tr	rs	9		8	7.500	9,000	8.250	1.06
62 408-1900	For standard cut outs in plastic laminated counter top add	EA			9		8	25.000	29.000	27.000	0.32
62 408-2200	Counter top built-in place, 635 mm wide, plastic laminate	LM			9		8	7.500	9.000	8.250	1.06
62 408-2500	Counter top marble, 600 mm wide, with splash, 13 mm thick, Average		0.125 Labor Fo 1.000 Brick laye	H	9		8	4.000	5.000	4.500	2.00
neo 408-9700	Counter top marble, 600 mm wide, with splash, 20 mm thick, Average		1.000 Power To	ools	9		5	3.000	3.000	3.000	2.66
Marco - November -	Counter top, 600 mm wide, stainless steel	SOM			9	-	5	9.000	10.000	9.500	0.88
062 500	PREFINISHED WOOD PANELING:	Som		•		-		0.000	10.000	0.000	0.00
062 504	ASSESSMENT OF THE PROPERTY OF					_	_				
062 504-2400	Plywood, prefinished 6 mm thick, 1.2 m x 2.44 m sheets. with vertical grooves, Birch faced. Average in small rooms, required considerable cutting.	SOM	0.125 Labor For 1.000 Corpente 1.000 Common	rs	17		8	25.000	29.000	27.000	0.32
062 504-2600	Discount profine had 6 mm think 1.2 m v. 244 m charts	_	1.000 Power To		17		8	20.000	23.000	21.500	0.40
Commence of the Commence of the	Mahogany, African Plwood, prefinished 6 mm thick, 1.2 m x 2.44 m sheets	-		-	+	+	-			The second	1000
062 504-2700	Philippine (Lauan), OAK or cherry, Average				17		8	25.000	29.000	27,000	0.32
062 504-3200	Plywood, prefinished 6 mm thick, 1.2 m x 2.44 m sheets Rosewood				17		В	15.000	17.000	16.000	0.53
062 504-3400	Plywood, prefinished 6 mm thick, 1.2 m x 244 m sheets Teak				17		8	20.000	23.000	21.500	0.400
062 504-3600	Plywood, prefinished 6 mm thick, 1.2 m x 2.44 m sheets				17		8	18.000	21.000	19.500	0.44
062 504-3800	Chestruf Plywood, prefinished 6 mm thick, 1.2 m x 2.44 m sheets Pecan				17		8	20.000	23.000	21.500	0.400
62 504-3900	Plywood, prefinished 6 mm thick, 1.2 m x 2.44 m sheets Walnut, Average				17		6	20.000	23.000	21.500	0.40
062 550	PREFINISHED HARDBOARD PANEL:										
062 554	PANELING, HARDBOARD:										
62 554-0050	Paneling hardboard, including furring no trim, 6 mm thick	SOM	0.125 Labor For 1.000 Carpenter 1.000 Common 1.000 Power To	rs Laborer	17		8	25.000	29.000	27.000	0.320
062 554-1300	Paneling hardboard, plastic faced, including furring,no trim, 6 mm thick	LM			17		8	20.000	23.000	21,500	0.400
62 554-2100	Molding for hardboard,wood or aluminum,average	LM	23		17		8	70.000	81.000	75.500	0.11
062 600	BOARD PANELING						12.90				
062 604	PANELING, BOARDS:										
062 604-6700	Paneling Wood board 25 mm x 100 mm, redwood,or any veneer.	SQM	0 125 Labor For 1,000 Carpenter 1,000 Common I 1,000 Power To	s Laborer	17		8	15.000	17.000	16,000	0.533
062 700	MISC. FINISH CARPENTRY										
062 704	BEAMS, DECORATIVE:		va na t-ter		-V		- 250				
62 704-0050	Beams decorative, rough sawn cedar, non load bearing 100 mm x 100 mm	LM	0.125 Labor For 2.000 Carpenter 1.000 Common I 1.000 Power To	s Laborer	25		8	60.000	69.000	64.500	0.133
62 704-0200	Beams decorative,rough sawn cedar,non load bearing 100 mm, x200 mm	1	1.000 7 0#6: 10		25	1	16	55.000	63.000	59.000	0.29
962 704-0400	Beams decorative_rough sawn cedar,non load bearing 100 mm x300 mm	LM	0.125 Labor For 2.000 Carpenter 1.000 Common I 1.000 Power To	s aborer	25		16	45,000	52.000	48.500	0.356
062 720	FIREPLACE MANTEL BEAM:										
	Fireplace mantel beam rough texture wood,100 mm x 200 mm, including wood brackets	LM	0.125 Labor For 1.000 Carpenter 1.000 Power To		9		8	6.000	7.000	6.500	1.333
	Fireplace mantel beam rough texture wood,100 mm x 250 mm, including wood brackets				9		6	6.000	7.000	6.500	1.333
62 720-0300	Fireplace mantel beam laminated hardwood 50 mm x 275 mm wide, 1.8 m long with 3 brackets	EA			9		8	3.500	4.000	3.750	2.286
062 730	GRILLES:					1		1 11			
	Grilles and Panels, hardwood, sanded.0.6 m x 1.2 m to 1.2 m x 2.4 m, custom, unfinished, average	SOM	0.125 Labor Fore 1.000 Carpenter		9	T	8	2.500	3,000	2.750	3.200
CONTRACTOR OF THE PARTY OF THE	HARDWARE: For hardware finish see Div. 064108		1.000 Power Too	ols		-	1				
	Hardware Finish, see division 064-108 & 087										
	LOUVERS:					1		2 1			
	Gable roof louver, redwood, full or half circle, 600 mm diameter	EA	0.125 Labor Fore 1.000 Carpenter		9	1	8	10.000	12.000	11.000	0.800
	Gable roof louver,redwood,triangular, 5/12 pitch, 1.5m base		1.000 Power Too		9	+	p	10.000	12.000	11.000	0.800
Company of the Company		**					•	10.000	12,000	11.000	U.600
62 750-0400	SHUTTERS, EXTERIOR: Shutters fixed, exterior, Aluminum, 400 mm wide, up to 2 meter high, louvered	SQM	0.125 Labor Fore	men	9		8	10.000	12.000	11.000	0.800
	fixed directly to concrete or masonry wall		1.000 Power Too	als			100	INSTANTA	(1557,636.5)	111.000	
	Shutters fixed, exterior, wood, 400 mm wide, up to 2 meter high, louvered, fixed directly to		-		9			10.000	12.000	11.000	0.800

O Ballich and	N 06: WOOD & PLASTICS			建筑建筑建筑			200000			
CODE	ITEM DESCRIPTION	UNI	Т	CREW STRUCTURE	CREW	CREW EQUIP.	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
62 750-4500	Shutters fixed, exterior, Polystrene, louvered				9	5	10.000	12.000	11.000	0.80
62 750-6000	Shutters fixed, exteriors, Vinyl, louvered				9	8	10.000	12.000	11.000	D.80
62 750-6050	Shutters aluminium louvered, motor operated, window 1,2 m x 1,2 m		1.6 0.1	125 Labor Foreman 000 Carpenter 500 Electrician 000 Common Laborer 000 Power Tools	21	8	12.000	14.000	13,000	0.66
062 778	DOORS AND FRAMES: See division 081 & 083	- ryres								
064	ARCHITECTURAL WOODWORK			# 1 2 3 X 1						
064 100	CUSTOM CASEWORK									
064 102	CABINETS:									
64 102-0010	Corner China cabinets, pine, 2m high, unfinished, average	EA	1.0	125 Labor Foreman 000 Carpenters 000 Common Laborer 000 Power Tools	25	В	5,000	6.000	5:500	1.60
64 102-0300	Chins Cabinets with built-in drawer units, pine, 457 mm deep. 810 mm high, unfinished		T		25		9,000	10.000	9.500	0.88
64 102-0700	average Kitchen base cabinets, hardwood, not incl. counter tops, 610 mm deep. 890 mm high, prefinished, with one top drawer,		T		25	В	24.000	26 000	26 000	0.33
64 102-0840	one door below, 300 mm wide Kitchen base cabinets, hardwood, not incl. counter tops, 610 mm deep. 890 mm high, prefinished, with one top drawer.		7		25	8	18.000	21.000	19.500	0.44
64 102-0880	one door below, 450 mm wide. Kitchen base cabinets, hardwood, not incl. counter tops, 810 mm	+			25	ē.	14.000	16.000	15.000	0.57
64 102-1000	deep, 890 mm high, prefinished with one top drawer, one door below, 600 mm wide. Kitchen base cabinets, hardwood, not incl. counter tops, 610 mm	+	+		25	8	24.000	28.000	26.000	0.33
64 102-1040	deep, 890 mm high, prefinished, with four drawers, 300 mm wide Kitchen base cabinets, hardwood, not incl. counter tops, 610 mm	+	+		25	8	18,000	21,000	19.500	0.44
64 102-1060	deep, 890 mm high, prefinished, with four drawers, 450 mm wide Kitchen base cabinets, hardwood, not incl. counter tops, 610 mm	+	+		25	8	14.000	16.000	15.000	0.57
64 102-1200	deep, 890 mm high, pretinished, with four drawers, 600 mm wide Kitchen base cabinets, hardwood, not incl. counter tops, 610 mm deep.	+	+		25	6	19,000	22.000	20.500	0.42
84 102-1260	890 mm high, prefinished, with two top drawers, two doors below, 680 mm wide. Kitchen base cabinets, hardwood, not incl. counter tops, 610 mm	+	+		25	8	15.000	17.000	16.000	0.53
64 102-1300	deep, 890 mm high, prefinished, with two top drawers, two doors below, 910 mm wide Kitchen base cabinets, hardwood, not incl. counter tops, 610 mm	+	†		25	8	12.000	14.000	13.000	0.66
04 400 4500	deep, 890 mm high, prefinished, with two top drawers, two doors below, 1.2m wide.	+	+		25		*0.000	22.800	00.500	0.40
12.101.211.212	Kitchen base cabinets, prefinished, with two doors below, for range or sink, 760 mm wide.	+	+		25		19.000	17.000	20.500	0.42
	Kitchen base cabinets, prefinished, with two doors below, for range or sink, 910 mm wide	+	+		25	8	12.000	JAM 1993)		200
64 102-1560	Kitchen base cabinets prefinished, with two doors below, for range or sink 1.2 m wide. Corner base cabinet, hardwood, not including countertops, standard, 890 mm H, 910 mm.	+	+		25	8	13.000	15.000	13.000	0.66
64 102-2000	wide, prefinished. Corner base cabinet, hardwood, not including countertops, standard, 890 mm H, 910 mm.	+	+		25	8	11.000	13.000	12.000	0.72
64 102-2100	wide, prefinished. Kitchen wall cabinets, hardwood, prefinished, 305 mm deep; 305 mm high with two doors,	+	+		25	8	25 000	29.000	27.000	0.32
64 102-4100	760 mm wide. Kitchen wall cabinets, hardwood, prefinished, 305 mm deep; 305 mm high with two doors,	+	+		25		22.000	25.000	23.500	0.36
04 102 4100	910 mm wide.	*		25 Labor Foreman	-	-	22.000	20.000	£0,500	0.50
64 102-4050	760 mm wde	EA	1.0	000 Carpenters 000 Common Laborer 000 Power Tools	25	8	20.000	23.000	21.500	0.40
64 102-4440	With two doors, 910 mm wide	1	1		25	8	17.000	20.000	18.500	0.47
54 102-4700	Kitchen wall cabinets, hardwood, prefinished, 305 mm deep, 610 mm high with two doors, 760 mm wide.				25	8	14.000	16.000	15.000	0.57
64 102-4720	Kitchen wall cabinets, hardwood, prefinished, 305 mm deep, 610 mm high with two doors, 910 mm wide.		1		25	8	11.000	13.000	12.000	0.72
04 102-5000	Kitchen wall cabinets, hardwood, prefinished, 305 mm deep, 762 mm high with one doors, 300 mm wide	1	1		25	8	25.000	29.000	27.000	0.32
04-102-5040	Kitchen wall cabinets, hardwood, prefinished, 305 mm deep; 762 mm high with one doors, 450 mm wide				25	8	17.000	20.000	18.500	0.47
64 102-5060	Kitchen wall cabinets, hardwood, prefinished, 305 mm deep; 762 mm high with one doors, 600 mm wide	_			25	8	14.000	16.000	15.000	0.57
54 102-5300	Kitchen wall cabinets, hardwood, prefinished, 305 mm deep, 762 mm high with two doors, 685 mm wide.				25		13.000	15.000	14.000	0.61
04 102-3340	Kitchen wall cabinets, hardwood, prefinished, 300 mm deep, 760 mm high with two doors. 910 mm wide				25	8	10.000	12.000	11.000	0.80
64 102-5380	Kitchen wall cabinets, hardwood, prefinished, 300 mm deep, 760mm high with two doors,1.2 m wide				25	8	9.000	10.000	9.500	0.68
	Corner wall cabinet, hardwood, prefinished, 760 mm high, 600 mm wide.		1		25	8	8.000	9.000	8.500	1.00
	Corner wall cabinet, hardwood, prefinished, 760 mm high, 760 mm wide.	+	+		25 25	8	7,600	9.000	8,300	1.05
32-4-1	Corner wall cabinet, hardwood, prefinished, 760 mm high, 900 mm wide Broom cabinet, 2:1m high, 610 mm deep, 460 mm wide	+	+		25	6	7.000	8,000	7.500	1.14
54 102-7500	Kitchen cabinet for 2 built-in ovens, 1 door below ovens, 1 door above ovens, 2.1m high.	LM	+		25	8	6.000	7.060	6.500	138
4 102-7550	610 mm deep. 685 mm wide Kitchen cabinet for 1 oven,1 door and with top,provision for hood 1.4 m high, 600 mm	1	+		25	я	6.000	7.003	6.500	1.92
	deep, 685 mm wide Valance board trim	-	+		25	8	130.000	10.00	14,000	
54 102-9550	Rule of thumb, kitchen cabinets not including appliance and counter top, average labor	+	1		25	8	8.000	9.000	8.500	1.00
	per LM For metal cabinets See division 123-501	*	1		4		- Control	5155		9750

CODE	ITEM DESCRIPTION	UNIT	F 1 2 2 2 2 2 2 2 2	REW ICTURE	CREW	EQUIP	D O MIN	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
064 104	CASEWORK, FRAMES:						1			
64 104-0050	Casework froming hase cabinets counter storage 914 mm high	EA	0.125 Labor For 1,000 Carpente 1,000 Power To	in a	9		8 2.600	3,000	2,800	3.07
64 104-0400	Casework framing, base cabinets, counter storage, 914 mm high, 914 mm wide, two bay	П	1.000 FOWE 10	VIII	9		s 1.600	2.000	1.800	5.00
54 104-1100	Conquery framing have cabinate country starting 014 mm bigh 1279 mm uses three				9		8 1.100	1.500	1.300	7.2
64 104-2800	Casework framing, book cases, one bay, 2.1 m high, 457 mm wide				9		8 1.700	2.000	1.850	4.70
64 104-3500	Casework framing, book cases, two bay, 2.1 m high, 914 mm wide				9		8 0.900	1.000	0.950	8.8
64 104-4100	Casework framing, book cases, three bay, 2.1 m high, 1.4 m wide			8	9		0.600	1.000	0.800	13.3
64 104-5100	Casework framing, coat racks, one bay, 2.1 m high, 610 mm wide				9		s 1,400	2.000	1.700	5.7
54 104-5300	Casework framing, coat racks, two bay, 2.1 m high, 1.2 m wide				9		в 0.800	1.000	0.900	10.0
64 104-5800	Casework framing, coat racks, three bay, 2.1 m high, 1.8 m wide				9		B 0.500	1.000	0.750	16.0
64 104-6100	Casework framing, wall mounted cabinet, one bay, 610 mm high,				9		8 4.000	5.000	4.500	2.0
64 104-7400	457 mm wide Casework framing, wall mounted cablnet, three bay, 610 mm high,	++		-	9		8 1.700	2.000	1.850	4.7
	1.4 m Wide Casework froming wall mounted cabinet one hay 760 mm high		-		-	-	A servicin	1,000		125819
64 104-8400	457 mm wide				9		8 3.100	4.000	3.550	2.58
54 104- 9 000	Casework framing, wall mounted cabinet, two bay, 760 mm high, 910 mm wide				9		1.900	2.000	1.950	4.2
64 104-9800	Casework framing, wardrobe, 2.1 m high, single, 610 mm wide	1			9		8 1,000	1.000	1.000	8.00
64 106	CABINET DOORS	-		•						
64 106-2000	Cabinet door, glass panel, hardwood frame 305 mm wide. 457 mm high	EA	0.125 Labor For 1.000 Carpenter 1.000 Power To		9	9	25.000	29.000	27.000	0.32
64 106-2600	Cabinet door, glass panel, hardwood frame 305 mm wide,	П	1,1000 / 51101 / 10		9		8 22.000	25.000	23.500	0.36
	762 mm high Cabinet door, hardwood, raised panel, 305 mm wide, 457 mm high		-		9	-	8 23.000	26.000	24.500	0.34
	Cabinet door, hardwood, raised panel, 305 mm wide, 457 mm high		-		9		19.000	22.000	20,500	0.42
	Cabinet door, plastic laminate on particleboard, 305 mm wide,	++-	-	-	9	-	100,000	2-33-36	75/32/1	0.40
54 106-6000	457 mm high	-	-		, ,	+	20.000	23.000	21.500	0.40
64 106-6140	Cabinet door, plastic laminate on particleboard, 305 mm wide, 762 mm high Cabinet door, plastic laminate on particleboard, 457 mm wide,				9	-	15.000	18.000	17.000	0.50
64 106-6500	762 mm high			accessors	9		15.000	17.000	16.000	0,53
64 108	CABINET HARDWARE					_	,			
54 108-1000	Cabinet catches, Average	EA	1.000 Carpenter 1.000 Power Too		9		175,000	201,000	188.000	0.04
64 108-2000	Cabinet door/drawer pulls, handles	EA	0.125 Labor Fore 1.000 Carpenter 1.000 Power Too	ds	9.	į į	70.000	81.000	75.500	0.11
64 108-3000	Cabinet drawer tracks/glides. Average	PAIR	0.125 Labor Fore 1.000 Carpenter 1.000 Power Too		9		30.000	35.000	32.500	0.26
4 108-4000	Cabinet hinges, Average	EA			9		60.000	69.000	64.500	0.13
64 110	DRAWERS							72		
34 110-1000	Drawers, solid hardwood front, 100 mm high, 300 mm wide	EA	0.125 Labor Fore 1.000 Carpenter 1.000 Power Too		9	ğ	12.000	14.000	13.000	0.66
	Enter the control of		STREET FREEDY FREE			_	10.000	12.000	11.000	0.80
4 110-1200	Drawers, solid hardwood front,100 mm high, 457 mm wide				9		10.000		11.000	0.80
British Marketon	Drawers, solid hardwood front,100 mm high, 457 mm wide Drawers, plastic laminate on particle board front,100 mm high, 457 mm wide	H			9	-	10.000	12.000		
Betrief of the control of					+	-	100000000000000000000000000000000000000	12,000		
64 140 64 140	Drawers, plastic laminate on particle board front,100 mm high, 457 mm wide	EA	0.125 Labor Fore 2.000 Carpenters 1.000 Common To	aborer	+	-	10.000	12.000	20.500	0.42
64 140 64 140 64 141-8000	Drawers, plastic laminate on particle board front,100 mm high, 457 mm wide VANITIES Vanity bases, 2 doors, 760 mm high, 530 mm deep, 610 mm wide	EA	2 000 Carpenters	aborer	9		19.000		THUSANSAN CO	29570
64 110-2800 64 140 64 141-8000 64 141-8050	Drawers, plastic laminate on particle board front,100 mm high, 457 mm wide VANITIES Vanity bases, 2 doors, 760 mm high, 530 mm deep, 610 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 760 mm wide	EA	2 000 Carpenters 1 000 Common L	aborer	25		19.000	22.000 17.000	16.000	0.53
64 140 64 140 64 141-8000 64 141-8050 64 141-8100	Drawers, plastic laminate on particle board front,100 mm high, 457 mm wide VANITIES Vanity bases, 2 doors, 760 mm high, 530 mm deep, 610 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 760 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 910 mm wide	EA	2 000 Carpenters 1 000 Common L	aborer	25 25 25	3	19.000 19.000 15.000 13.000	22.000 17.000 15.000	16.000 14.000	0.53
64 140 64 140 64 141-8000 64 141-8050 64 141-8150 64 141-8150	Drawers, plastic laminate on particle board front,100 mm high, 457 mm wide VANITIES Vanity bases, 2 doors, 760 mm high, 530 mm deep, 610 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 760 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 910 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 1.2 m wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 1.2 m wide	EA	2 000 Carpenters 1 000 Common L	aborer	25 25 25 26 25	3	19.000 19.000 15.000 13.000	22.000 17.000 15.000 12.000	16.000 14.000 11.000	0.53 0.61 0.80
64 140 64 141-8000 64 141-8050 64 141-8150 64 141-8500 64 141-8500	Drawers, plastic laminate on particle board front,100 mm high, 457 mm wide VANITIES Vanity bases, 2 doors, 760 mm high, 530 mm deep, 610 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 760 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 910 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 1,2 m wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 1,2 m wide Vanity bases, custom, built-in place, 2 doors, 760 mm high, 530 mm deep, 1,2 m wide	EA	2 000 Carpenters 1 000 Common L	aborer	25 25 25	3	19.000 19.000 15.000 13.000	22.000 17.000 15.000	16.000 14.000	0.42 0.53 0.61 0.80
4 110-2800 64 140 4 141-8000 4 141-8100 4 141-8100 4 141-8150 4 141-8500 64 300	Drawers, plastic laminate on particle board front,100 mm high, 457 mm wide VANITIES Vanity bases, 2 doors, 760 mm high, 530 mm deep, 610 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 760 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 910 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 910 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 1.2 m wide Vanity base, custom, built-in place, 2 doors, 760 mm high, 530 mm deep, 1.2 m wide STAIRWORK & HANDRAILS	EA	2 000 Carpenters 1 000 Common L	aborer	25 25 25 26 25	3	19.000 19.000 15.000 13.000	22.000 17.000 15.000 12.000	16.000 14.000 11.000	0.53 0.61 0.80
4 110-2800 64 140 4 141-8000 4 141-8100 4 141-8100 4 141-8150 4 141-8500 64 300	Drawers, plastic laminate on particle board front,100 mm high, 457 mm wide VANITIES Vanity bases, 2 doors, 760 mm high, 530 mm deep, 610 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 760 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 910 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 1,2 m wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 1,2 m wide Vanity bases, custom, built-in place, 2 doors, 760 mm high, 530 mm deep, 1,2 m wide	EA	2.000 Cerpetition 1.000 Common L 1.000 Power Too	aborer is	25 25 25 26 25	3	19.000 19.000 15.000 13.000	22.000 17.000 15.000 12.000	16.000 14.000 11.000	0.53 0.61 0.80
4 110-2800 64 140 4 141-8000 4 141-8050 4 141-8150 4 141-850 64 300 64 306	Drawers, plastic laminate on particle board front,100 mm high, 457 mm wide VANITIES Vanity bases, 2 doors, 760 mm high, 530 mm deep, 610 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 760 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 910 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 910 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 1.2 m wide Vanity base, custom, built-in place, 2 doors, 760 mm high, 530 mm deep, 1.2 m wide STAIRWORK & HANDRAILS	EA EA	2.000 Carpenters 1.000 Common L 1.000 Power Too 0.125 Labor Fore 2.000 Carpenters	aborer (s	25 25 25 26 25	3	19.000 19.000 15.000 10.000 1.000	22.000 17.000 15.000 12.000	16.000 14.000 11.000	0.53 0.61 0.80
4 141-8050 4 141-8150 4 141-8150 4 141-8150 4 141-8150 4 141-850 6 4 30 6 6 5 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Drawers, plastic laminate on particle board front,100 mm high, 457 mm wide VANITIES Vanity bases, 2 doors, 760 mm high, 530 mm deep, 610 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 760 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 910 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 910 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 1,2 m wide Vanity base, custom, built-in place, 2 doors, 760 mm high, 530 mm deep, 1,2 m wide STAIRWORK & HANDRAILS STAIRS PREFABRICATED	•	2.000 Carpenters 1.000 Common L 1.000 Power Too 0.125 Labor Fore 2.000 Carpenters	aborer (s	25 25 25 25 25 25 25	9 9 9 9	19.000 19.000 15.000 10.000 1.000	22.000 17.000 15.000 12.000 1.000	16.000 14.000 11.000 1.000	0.53 0.61 0.80 8.00
4 110-2800 64 140 4 141-8000 4 141-8050 4 141-8150 4 141-850 64 300 64 306 4 306-0100 4 306-0200	Drawers, plastic laminate on particle board front,100 mm high, 457 mm wide VANITIES Vanity bases, 2 doors, 760 mm high, 530 mm deep, 610 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 760 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 910 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 910 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 1.2 m wide Vanity base, custom, built-in place, 2 doors, 760 mm high, 530 mm deep, 1.2 m wide STAIRWORK & HANDRAILS STAIRS PREFABRICATED Box stairs,prefabricated 910 mm wide,oak or pine treads,no handrails, 600 mm high	•	2.000 Carpenters 1.000 Common L 1.000 Power Too 0.125 Labor Fore 2.000 Carpenters	aborer (s	25 25 25 25 25 25 25	3 3 4 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	19.000 19.000 15.000 10.000 1.000	22.000 17.000 15.000 12.000 1.000	16.000 14.000 11.000 1.000	0.53 0.61 0.80 8.00
4 110-2800 64 140 4 141-8000 4 141-8050 4 141-8150 4 141-850 64 300 64 306 4 306-0100 4 306-0200 4 306-0400	Drawers, plastic laminate on particle board front,100 mm high, 457 mm wide VANITIES Vanity bases, 2 doors, 760 mm high, 530 mm deep, 610 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 760 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 910 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 910 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 1.2 m wide Vanity base, custom, built-in place, 2 doors, 760 mm high, 530 mm deep, 1.2 m wide STAIRWORK & HANDRAILS STAIRS PREFABRICATED Box stairs,prefabricated 910 mm wide,oak or pine treads,no handrails, 600 mm high Box stairs,prefabricated 910 mm wide,oak or pine treads,no handrails, 1.8m high	•	2.000 Carpenters 1.000 Common L 1.000 Power Too 0.125 Labor Fore 2.000 Carpenters	aborer (s	25 25 25 25 25 25 25 25	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	19.000 19.000 15.000 10.000 1.000 5.000	22.000 17.000 15.000 12.000 1.000 6.000	16.000 14.000 11.000 1.000 5.500	0.53 0.61 0.80 8.00 1.60 2.66 3.20
64 140-2800 64 140 64 141-8000 64 141-8050 64 141-8100 64 141-8150 64 141-850 64 306-64 64 306-0100 64 306-0200 64 306-0400	Drawers, plastic laminate on particle board front,100 mm high, 457 mm wide VANITIES Vanity bases, 2 doors, 760 mm high, 530 mm deep, 610 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 760 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 910 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 910 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 1.2 m wide Vanity bases, custom, built-in place, 2 doors, 760 mm high, 530 mm deep, 1.2 m wide STAIRWORK & HANDRAILS STAIRS PREFABRICATED Box stairs,prefabricated 910 mm wide,oak or pine treads,no handrails, 600 mm high Box stairs,prefabricated 910 mm wide,oak or pine treads,no handrails, 2.45 m high Prefabricated stair rail with baluster, 5 risers Open stairs,prefabricated prefinished,metal stringers,wood treads	•	2.000 Carpenters 1.000 Common L 1.000 Power Too 0.125 Labor Fore 2.000 Carpenters	aborer (s	25 25 25 25 25 25 25 25 25 25		19.000 15.000 13.000 1.000 5.000 3.000 2.500	22.000 17.000 15.000 12.000 1.000 6.000 4.000 3.000	16.000 14.000 11.000 1.000 5.500 3.500 2.750	0.53 0.61 0.80 8.00
4 110-2800 64 140 4 141-8000 4 141-8050 4 141-8150 4 141-8150 64 300 64 306 4 306-0100 4 306-0200 4 306-0400 4 306-1500	Drawers, plastic laminate on particle board front,100 mm high, 457 mm wide VANITIES Vanity bases, 2 doors, 760 mm high, 530 mm deep, 610 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 760 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 910 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 910 mm wide Vanity bases, 2 doors, 760 mm high, 530 mm deep, 1.2 m wide Vanity base, custom, built-in place, 2 doors, 760 mm high, 530 mm deep, 1.2 m wide STAIRWORK & HANDRAILS STAIRS PREFABRICATED Box stairs, prefabricated 910 mm wide, oak or pine treads, no handrails, 600 mm high Box stairs, prefabricated 910 mm wide, oak or pine treads, no handrails, 1.8m high Box stairs, prefabricated 910 mm wide, oak or pine treads, no handrails, 2.45 m high Prefabricated stair rail with baluster, 5 risers	•	2.000 Carpenters 1.000 Common L 1.000 Power Too 0.125 Labor Fore 2.000 Carpenters	aborer (s	25 25 25 25 25 25 25 25 25 25 25 25 25 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	19.000 15.000 13.000 1.000 5.000 3.000 2.500	22.000 17.000 15.000 12.000 1.000 6.000 4.000 3.000 16.000	16.000 14.000 11.000 1.000 5.500 3.500 2.750 15.000	0.53 0.61 0.80 8.00 1.60 2.66 3.20 0.57

5272411	N 06: WOOD & PLASTICS						antidates linkade		2020	Part of the Control o
CODE	ITEM DESCRIPTION	UNIT	STRUC	EW CTURE	HOURS	EQUIP.	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
064 305-3400	Curved stairway, 990 mm wide, prefabricated Oak,unfinished, including balustrade system open one side 2.75 m high	ř.			25	8	0.625	1.000	0.813	12.800
64 306-3500	Curved stairway, 990 mm wide, prefabricated Oak,unfinished, including balustrade				25	6	0.625	1.000	0.813	12:800
064 306-3700	system open one side, 3 m high Curved stainway, 990 mm wide, prefabricated Oak,unfinished, including balustrade system open two sides 2.75 m high				25	5	0.375	0.500	0.438	21.333
64 306-3800	Curved stainway, 990 mm wide, prefabricated Oak,unlinished, including balustrade system open two sides 3 m high				25	8	0.375	0.500	0.438	21.333
064 306-4400	Shiral Oak stale unfinished matehricated 1.4 m diameter		1);	25	8	1,000	1.500	1.250	8.000
064 308	STAIR PARTS	diam'r.	*							
064 308-0900	Stair baluster, pine or birch, 1.1 m high	EA	0 125 Labor Forer 1 000 Carpenter		9	В	24.000	28.000	26.000	0.333
064 308-1200	Stair, starting newels, 80 mm wide	1 14	1.000 Power Took	15	9	6	5.000	6.000	5.500	1.600
64 308-1500	Stair landing newel 80 mm wide pine or birch	145			9	8	4.000	5,000	4,500	2.000
64 308-1800	Stair railings, oak, built-up, including the subrail, average	LM			9	8	10.000	12.000	11.000	0.800
	Stair riser oak 20 mm x 190 mm high		1		9	8	12,000	14.000	13.000	0.667
	Stair skirt board, pine, 25 mm x 250 mm		1		9	8	10.000	12.000	11.000	0.800
	Stair treads 27 mm x 300 mm wids, 1.8 m long	EA	1	-	9	8	9.000	10.000	9.500	0.889
064 310	RAILING:	To Frank	T		45		17.00,700	7.431.55	7,000	2.55.00
064 310-0300	Interior railing architectural grade, hardwood, with spindles 150 mm O.C., 1.2 m long	LM	0.125 Labor Foren 1.000 Carpenter 1.000 Power Tool		9	8	8.000	9.000	8.500	1.000
64 310-0400	Interior railing architectural grade, hardwood, with spindles: 150 mm O.C., 2.44 m long	LM			9	8	9.000	10,000	9.500	0.889
064 400	MISC. ORNAMENTAL ITEMS									
064 402	COLUMNS:									
064 402-0050	Columns with base plate, Aluminum, round, 150 mm diameter, 3 meters high	LM	0.125 Labor Forer 1.000 Carpenter 1.000 Common La 1.000 Power Tool	aborer	17	Б	4,000	5,000	4.500	2.000
64 402-0100	Columns with base plate, Aluminum, round , 200 mm diameter, 5 meters high				17	8	2.000	3.000	2.500	4.000
64 402-0200	Columns with base plate, Aluminum, round, 250 mm diameter, 6 meters high				17	8	1.500	2.000	1.750	5.333
64 402-0220	Columns cherry, square, 200 mm x 200 mm, 4 meter high, wildecorative base & crown	Ţ			17	. 8	1.250	2.000	1.625	6.400
064 402-0250	Columns with hase plate fir wood, hollow round, 150 mm diameter	LM	0.125 Latter Forent 1.000 Carpenter 1.000 Common La 1.000 Powe: Tool	aborer	17		3.500	4.000	3.750	2 286
64 402-0300	Columns with base plate, fir wood, hollow round, 200 mm diameter, 6 meter high				-17	8	1.850	2.000	1.925	4.324
064 402-0350	Columns with base plate, fir wood, hollow round, 250 mm diameter,				17		1.750	2.000	1,875	4.571
64 402-0800	Square column with base plate, built up 127 mm x 127 mm, hollow core, fire wood, 3 meter high				17		2.500	3.000	2,750	3.200
64 402-0900	Square column with base plate, built up, 90 mm x 90 mm, solid, fire wood, 3 meter high				17	5	4.500	5.000	4.750	1.778
64 402-4000					17	ē	12.000	14.000	13.000	0.667
64 402-4200	Posts rough sawn cedar, 150 mm x 150 mm, 4 meter high				17	8	10.000	12.000	11.000	0.800
64 402-4300	Posts rough sawn cedar,1200 x 200 mm, 4 meter high				17	8	9.000	10.000	9.500	0.889
064 410	MILLWORK, HIGH DENSITY POLYMER									
64 410-0100	Miliwork, High density polymer base, 14 mm x 80 mm	LM	0.125 Labor Foren 1.000 Carpenter 1.000 Common La 1.000 Power Tools	aboret	17	ā	55.000	63.000	59.000	0.145
64 410-0200	Millwork, High density polymer casing, fluted, 16 mm x 80 mm				17	8	50.000	58.000	54.000	0.160
64 410-0300	Millwork, High density polymer, Chair rail, 14 mm x 57 mm		1		17	8	56.000	64.000	60.000	0.143
	Millwork, High density polymer, Chair rail, 16 mm x80 mm				17	Е	50.000	58.000	54.000	0.160
64 410-0500	Millwork, High density polymer, corner, inside, 13 mm x 29 mm				17	В	52.000	60.000	56.000	0.154
64 410-0600	Millwork, High density polymer, cove, 21 mm x 95 mm				17	ě	56.000	64.000	60.000	0.143
	Millwork, High density polymer, crown, 19 mm x 97 mm				17	8	56.000	64.000	60,000	0.145
	Milwork, High density polymer, half round, 24 mm x 50 mm		1		17		56.000	64.000	60.000	0.143



Thermal & Moisture Protection

Division 7.. Thermal & Moisture Protection..

Estimating Tips:

071 Water Proofing & Damp-proofing:

As a matter of fact, that no one can be familiar with the many different types of water and damp-proofing in the worldwide market. Be sure of the job specifications before pricing this subdivision. The difference in cost between water proofing and damp-proofing can be great. Water-proofing will hold back standing water. Damp-proofing prevents the transmission of water vapor.

Method of applying such materials differs from one manufacturer to another to ensure a water resistant surface. Estimators shall consult local manufacturers for such items pricing.

072 Insulation & Fire-Proofing:

Insulation and fire-proofing products are measured by area, thickness, volume or R value. Specifications may only give what the specific R value should be in a certain situation. The estimator may need to choose the type of insulation to meet the R value.

075 Membrane Roofing.

076 Flashing & Sheet Metal.

077 Roof Specialties & Accessories.

078 Skylights:

The items in these sub-divisions compose a roofing system. Several different installation trades will need to work together on the roofing system.

Inherent various trades must be accounted for when estimating labor costs.

079 Joint Sealers:

To complete the weather-tight, the sealants and caulkings must be estimated. When caulking or sealant are shown at typical locations, this means that estimator must include them for all the locations where this detail is applicable.

Be careful to keep different types of sealant separate, and remember to consider backer rods and primers if necessary.

CSI	N 07 :THERMAL & MOISTURE PROTECTION	17995000	A Text of the least the le	REW	CREW	CREW		HINDE SERVICE	D. O.	AVRG.
CODE	ITEM DESCRIPTION	UNIT	41-14	UCTURE	HOURS	and the second	D. O. MIN.	D. O. MAX.	AVRG.	E. H.
071	WATERPROOFING & DAMPPROOFING		E-1	£ = 34			137 (44)			700
71 100	SHEET WATERPROOFING:							3		
071 102	ELASTOMERIC WATERPROOFING:									7
71 102-001	D Elastomeric waterproofing,EPDM plain 0.8 mm thick on metal.	SOM	0.125 Skilled F 2.000 Roof Wo 1.000 Tooks Se	rkers	17	е	45.000	52.000	48.500	0.17
71 102-0020	Elastomeric waterproofing,EPDM plain 0.8 mm thick on concrete	and the			17	8	95.000	109.000	102.000	0.08
71 102-0100	Elastomeric waterproofing,EPDM plain 1.6 mm thick on metal.				12	8	42.000	48.000	45.000	0,19
71 102-0120	Elastomeric waterproofing,EPDM plain 1.6 mm thick on concrete				17	8	90.000	104,000	97.000	0.08
71 102-0300	Elastomeric waterproofing, Nylon reinforced sheets upto 1.6 mm thick on concrete				17	8	45.000	52.000	48.500	0.17
71 102-1500					17	8	45.000	52.000	48,500	0.17
71 102-1800	Elastomeric waterproofing,nylon reinforced,				17.	8	38.000	44.000	41,000	0.21
71 102-2100	3 mm thick on concrete Elastomeric waterproofing, neoprene sheets, fiberglass reinforced,	+			17	A	38.000	44.000	41,000	0.21
10.000000000000000000000000000000000000	fluid applied 3 mm thick Electomeric waterscrafting Doubthucking and		-	-	1	-				and are
71 102-2200	rubberized asphalt sheets, 3mm thick, on metal				17	8	40.000	46.000	43.000	0.20
71 102-2210	Elastomeric waterproofing, Polythyelene and asphaltic hardboard protection board, 3 mm thick, on metal				17	8	38.000	44.000	41.000	0.21
71 102-2220	Elastomeric waterproofing.Polythyeiene and asphaltic hardboard protection board, 6 mm thick, on metal				17	6	35.000	40.000	37.500	0.22
1 102-2400	Elastomeric waterproofing, Polyvinyl chloride sheets			-	17	8	42.000	48.000	45.000	0.19
THE REAL PROPERTY OF	plain upto 0.76 mm thick, on metal	++		-	-	1	// // // // // // // // // // // // //			
71 102-3300	polyurethane fluid applied 1 mm thick, on metal				17	.8	52.000	60.000	56,000	0.15
71 102-3600	Elastomeric waterproofing, Vinyl plastic sprayed on, 0.6 to 1 mm thick, on metal			.	17	8	37.000	43.000	40.000	0.21
71 104	MEMBRANE WATERPROOFING:									
71 104-0010	Membrane waterproofing on slabs, 1 ply,felt	SOM	1 Roofer Forem 4 Roofers, Corre 2 Roofer Helpes 1 Application Ed 1 Tar Kettle/Pol	oosition s	56	16	250.000	288.000	269.000	0.06-
1 104-0100	Membrane waterproofing,on slabs, 1 ply,glass fiber fabric				56	16	190.000	219.000	204.500	0.08
1 104-0600	Membrane waterproofing,on slabs, 3 ply,felt				56	16	95,000	109.000	102.000	0.16
1 104-0700	Membrane waterproofing,on slabs, 3 ply,glass fiber fabric				56	16	80.000	92.000	86.000	0.20
1 104-0900	Membrane waterproofing,on walls, 1 ply,felt				56	16	200.000	230.000	215.000	0.08
1 104-0910	Membrane waterproofing,on walls, 3 ply,telt				56	16	80.000	92.000	86.000	0.200
1 104-0920	Membrane waterproofing,on walls, 3 ply.glass fiber fabric			,	56	16	65.000	75.000	70.000	0.246
1 104-1000	Membrane waterproofing,on walls, 3 plyfelt & adhered 6 mm thick expanded polysyrene protection board.		1 Roofer Forem 6 Roofers, Comp 2 Roofer Helper 1 Application Eq 1 Tar Kettle/Pot	osition s	72	16	80.000	92.000	86.000	0.200
1 104-1070	Membrane waterproofing,Fiberglass fabric, black mesh		0.125 Skilled Fo 2.000 Roof Worl 1.000 Tools Set		17	8	800.000	920.000	860.000	0.010
1 104-1100	Membrane waterproofing. Fluid neoprene, 4 coats, 1 mm				17	8	15.000	17.000	16.000	0.53
1 104-1200	Membrane waterproofing, Fluid neoprene, 4 coats, 2 mm				17	8	9.000	10.000	9.500	0.889
71 300	BENTONITE WATERPROOFING									
71 450	CEMENT WATERPROOFING									
71 452	CEMENTITIOUS WATERPROOFING:			10-00-						
1 452-0020	Cementitious waterproofing,one coat cement base 3 mm application,sprayed on	SQM	0.125 Skilled Fo 1.000 Plasterer 1.000 Plasterer 1.000 Building U 1.000 Grouting E	Helper aborer	25	8	75.000	86.000	80.500	0.107
71 600	BITUMINOUS DAMPPROOFING									
71 602	BITUMINOUS ASPHALT COATING:	1	Klue	P						
1 602-0030	Bituminous Asphalt coating,Brushed on, below grade, 1 coat	SOM	0.125 Skilled For 1.000 Skilled Wo 1.000 Helper 1.000 Tools Set		17	8	55.000	63.000	59.000	0.145
1 602-0100	Bituminous Asphat coating,Brushed on, below grade, 2 coat				17	8	40.000	46.000	43.000	0.200
1 602-0300	Bituminous Asphalt coating, Sprayed on,	111			17	8	70.000	81.000	75.500	0.114
	below grade, 1 coat, 0.63 m2/Liter Bituminous Asphalt coating, Sprayed on,	1-1-1	-		17	8		10000000	1000000000	Para Para
002-0400	below grade, 2 coat, 0.50 m2/Liter Bituminous Asphalt coating Troweled on,					a	40.000	46.000	43.000	0.200
002-0700	asphalt coating with fibers, 3 mm thick				17	8	32.000	37.000	34.500	0.250
602-1000	Bituminous Asphalt coating Troweled on, asphalt coating with fibers, 13 mm thick				17	8	27.000	31.000	29.000	0.296
	Bituminous Asphalt coating.Protective board				17	8	36.000	41,000	38.500	0.222
	water repellent coat	1 +	-		"	+			20.000	0.666
20 DOMESTIC	RUBBER COATING:					1			-	
S-2007/4-004 (Fig.)	Rubber coating. Water base liquid roller applied		0.125 Skilled For 2.000 Roofers,Co		17	6	450.000	518.000	484.000	0.018
754-0010	The state of the s		2.000 Roosers,ca 2.000 Consumab							

CSI			CREW	CREW	CREW			D. O.	AVRG.
CODE	ITEM DESCRIPTION	UNIT	STRUCTUR	100000000000000000000000000000000000000	The second	D. O. MIN.	D. O. MAX.	AVRG.	E. H.
71 800	CEMENTITIOUS DAMPPROOFING								
071 802	CEMENT PARGING:								
71 802-0010	Cement Parging, 2 coats, 13 mm thick, regular portland cement or waterproofed portland cement.	SOM	0.125 Labor Foreman 1,000 Mason 1,000 Mason Helper 1,000 Tools Set	17	8	18.000	21.000	19.500	0.44
071 920	VAPOR RETARDERS		1,000 1003 50						
071 922	BUILDING PAPER:								
71 922-0010	Building Paper, Aluminium and kraft laminated, foil 1 side or 2 sides	SOM	0 125 Labor Foreman 1 000 Carpenter 1 000 Helper 1 000 Tools Set	17	8	275.000	316.000	295,500	0.021
71 922-0100	Building Paper, Aluminium and kraft laminated (tol 2 sides		1 Aud 1 does Se.	17	8	275.000	316.000	295.500	0.029
71 922-0300	Building Paper, Asphalt, two ply,		†	17	8	137,000	158.000	147.500	0.05
171 922-040r	13.60 kg,for subfloors Building Paper, Asphalt felt sheathing paper, 6.80 kg			17		275.000	316.000	295.500	0.029
071 922-0600	Building Banes Behinthulane unger pagin	-	+			1707.00205		20 ESCO.	2000000
0.000.000.000.000	standard from 0.05 mm thick to 0.25 mm thick			17		275,000	316.000	295.500	0.029
071 922-1300	clear reinforced,fire retardant, 0.20 mm thick			17	8	275,000	316.000	295.500	0.029
071 922-1500	Building Paper,Red rosin, 46 m2 rolls upto 0.244 kg/m2			17	8	275.000	316.000	295.500	0.029
071 922-2400	Building Paper, Waterproofed kraft with sisal or fiberglass fibers, average		1	17	8	275.000	316.000	295,500	0.029
072	INSULATION & FIREPROOFING		الأشط الاث	THE REAL PROPERTY.			1 4	4.0	THIS
072 104	CEMENTITIOUS INSULATION See division 035-212								
072 107	HEATING INSULATION See division 155-651								
072 108	MASONRY INSULATION:								
D72 108-0100	Masonry Insulation, Vermiculite or perlite, poured, in cores of concrete block, 100 mm thick wall.	SQM	0.125 Labor Forman 1.000 Bhcklayer 1.000 Bricklayer Helper 1.000 Tools Set	17	8	350.000	403.000	376.500	0.023
72 108-0200	Masonry insulation, Vermiculite or perlite, poured, in cores of concrete block,		1.000 1005 Set	17	8	220.000	253.000	236 500	0.036
	Mesonry insulation Vermiculity or parity on rad in payes of congrete block					Manual Control			1700000
072 108-0300	200 mm thick wall.			17	8	175.000	201,000	188.000	0.046
072 108-0400	Masonry insulation, Vermiculite or perlite, poured, in cores of concrete block, 250 mm thick wall			17	8	135,000	155.000	145.000	0.059
072 108-0600	Masonry insulation, vermiculite or perlite, poured in cavity wall, water repellant	GUM	ļ	17	8	5.500	6.000	5,750	1.455
072 108-0700	Masonry insulation, Foamed in place, urethane 67 mm thick in cavity wall	177	0.125 Labor Forman 1.000 Mason 1.000 Mason Heiper 1.000 Building Laborer 1.000 Grouting Equipmen	25	8	0.650	1.000	0.825	12.308
072 109	PERIMETER INSULATION:		3R-1						
72 109-0600	Perimeter insulation, expanded polystyrene 25 mm thick	SOM	0.125 Labor Formati 1,000 Carpenter 1,000 Helper 1,000 Tools Set	17	8	65.000	75,000	70.000	0.123
072 109-0700	Perimeter insulation, expanded polystyrene 50 mm thick			17	8	65.000	75.000	70.000	0.123
072 110	POURED INSULATION:								
072 110-0010	Poured insulation, Cellulose fiber, or fiberglass wool, or mineral wool.	CUM	0.125 Labor Forman 1.000 Carpenter 1.000 Helper 1.000 Tools Sel	17	8	4.500	5,000	4.750	1.778
72 110-0400	Poured insulation Vermiculite or perlite	-	1,000 1000 001	17	8	4.500	5.000	4.750	1,778
072 111	REFLECTIVE:								
072 111-0100	Reflective insulation, aluminium foil on 18 kg kraft, multilayered with air spaces.2 ply.	SOM	0.125 Labor Formen 1.000 Carpenter 1.000 Helper 1.000 Tools Set	.17	8	170.000	196.000	183.000	0.047
72 111-0500	Reflective insulation, aluminium foil on 18 kg kraft, multilayered with air spaces, 3 pky or 5 pky		8.5	17	. 6	135.000	155.000	145.000	0.059
072 112	REFRIGERATION INSULATION See division 130-380						5.7s2452en00	19330000	50015
072 114	SHEATHING See division 061-	154	1200012		-				
072 115	SPRAYED INSULATION:	erev.							
72 115-0010	Insulation sprayed, Fibrous/cementitious, finished wall, 25 mm thick	SQM	0 125 Labor Forman 1,000 Mason 1,000 Mason Helpe- 1,000 Building Laborer	25	8	150.000	173.000	161.500	0.053
72 115-0600	Insulation sprayed, urethane foam type, on roofs, incl. preparation, 25 mm thick	SOM	1,000 Grouting Equipment 0,125 Labor Forman 1,000 Mason 1,000 Mason Helper 1,000 Building Labors 1,000 Grouting Equipment	25	ē	56.000	64.000	60.000	0.143
72 115-0700	Insulation sprayed, urethane foam type, on roofs, including preparation,		Town II Edward	25	8	35.000	40.000	37.500	0 229
72 116	50 mm thick WALL INSULATION,RIGID:		L 7			250000000000000000000000000000000000000		1.00000	
SELECTION OF THE WAR GROUP	Wall insulation rigid, Fiberglass . 24 kg/m3.unfaced . 25 mm to 50 mm thick	SQM	0.125 Labor Forman 1.000 Carpenter 1.000 Helper 1.000 Topis Set	17	R	100.000	115.000	107.500	0.080

001		_	114	DEW	65500					
CODE	ITEM DESCRIPTION	UNIT	100	REW JCTURE	HOURS	CREW	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
72 116-037	0 Wall insulation rigid, Fiberglass, 48 kg/m3, unfaced or foil faced, 25 mm thick or 38 mm thick				17	1	100.000	115.000	107,500	0.08
72 116-040	0 Wall insulation rigid, Fiberglass, 48 kg/m3, unfaced or foil faced, 50 mm thick	\vdash	-		17		90.000	104.000	97.000	0.08
72 116-042	Wall insulation rigid, Fiberglass, 48 kg/m3, unfaced or foil faced,				17		80.000	92.000	86.000	0.10
	64 mm thick or 75 mm thick	+	-	-				3072653	8.5800.000	1075025
A	Wall insulation rigid, Fiberglass, 96 kg/m3, unfaced or foil faced, 25 mm thick	-	1	-	17		100.000	- 1,000,000,000	107.500	0.08
	Wall insulation rigid, Fiberglass, 96 kg/m3, unfaced or foil faced, 38 mm thick Wall insulation rigid, Fiberglass, 96 kg/m3, unfaced or foil faced.	-	-	-	17		90.000	104.000	97.000	0.08
72 116-070	50 mm thick or 64 mm thick				17		80.000	92.000	86.000	0.10
72 116-072	1 Wall insulation rigid, Fiberglass, 96 kg/m3, unfaced or foll faced, 75 mm thick				17		75.000	86.000	80.500	0.107
72 116-150	0 Wall Insulation rigid, Foamglass, 38 mm thick				17	8	80.000	92.000	86.000	0.100
72 116-155	0 Wall insulation rigid, Foamglass. 77 mm thick				17	8	75.000	86.000	80.500	0.10
72 116-160	0 Wall insulation rigid, Isocyanurate, 1.2 m x 2.44 m sheet,foil faced.both sides				17	8	80.000	92.000	86.000	0.10
72 116-1620	Wall insulation rigid, Isocyanurate, 1.2m x 2.44 m sheet, foil faced, both sides 16 mm thick to 25 mm thick		1		17		80.000	92.000	86,000	0.100
72 116-1650	Wall insulation rigid, Isocyanurate, 1.2 m x 2.44 m sheet, foil faced, both sides 38 mm		1		17		75.000	86.000	80.500	0.107
	thick,to 100 mm thick	H		-	17		80.000		AVEREAN	SSA10V
	0 Wall insulation rigid, Perlite, 25 mm thick 0 Wall insulation rigid, Perlite, 50 mm thick	H	-	-	17	8	75.000	92.000 86.000	86.000	0.100
THE WILDLAND	Wall insulation rigid, Perlie, 50 mm thick Wall insulation rigid, Extruded or expanded polystyrene, 1,75 kg/cm2, 25 mm thick			-	17	8	80.000	92.000	86.000	0.107
	Wall insulation tigid Extraded or expanded polyaterano 1.75 ke/em2	-	1	-		•	SECTION AND ADDRESS OF THE PARTY OF THE PART	3707375757	27.0000000	100000
72 116-1940	50 mm thick or 76 mm thick				17	8	75.000	86.000	80.500	0.107
	Wall insulation rigid, Sheathing, Insulating foil faced fiberboard, 10 mm thick	+		<u> </u>	17	8	70.000	81.000	75.500	0.114
72 118	WALL OR CEILING INSUL., NON-RIGID:		To and I also for	225	-	-				
72 118-0060	Wall or ceiling insulation,non-rigid,Fiberglass,kraft or foil faced, batts or blankets, 90mm thick, 280 mm wide	SQM	0.125 Labor For 1.000 Carpenter 1.000 Helper 1.000 Tools Set		17	8	120.000	138.000	129.000	0.067
72 118-0080	Wall or ceiling insulation,non-rigid. Fibergiass, kraft or foil taced, batts or blankets, 90 mm thick, 380 or 600 mm wide				17	8	160.000	184.000	172.000	0.050
72 118-0140	Wall or calling insulation page that Ethanolage traff or fall found batte				17	8	100.000	115.000	107.500	0.080
72 118-0160	Wall or ceiling insulation,non-rigid,Fiberglass,kraft or foil faced, batts or blankets, 150 mm thick, 380 mm wide				17	8	135.000	155.000	145.000	0.059
72 118-0180	Wall or calling insulation populate Elboraises irreft as fall toward have				17	8	160.000	184.000	172.000	0.050
72 118-0200	Wall or ceiling insulation,non-rigid, Fiberglass, kraft or foli faced, batts	-			17	8	120.000	138.000	129.000	0.067
72 118-0220	or blankets, 230 mm thick, 380 mm wide	+	-		17	1	135.000	155.000	145.000	River in
	or blankets, 230 mm thick, 600 mm wide	_	-		- 1/	•		155.000	145.000	0.059
72 118-0240	mm thick, 380 mm wide.				17	8	100.000	115.000	107.500	0.080
72 118-0260	Wall or ceiling insulation,non-rigid,Fiberglass,kraft or foil faced, batts or blankets, 300 mm thick, 600 mm wide				17	- B	135.000	155.000	145.000	0.059
72 118-0860	Wall or ceiling insulation,non-rigid,Fiberglass,unfaced,batts or blankets, 150 mm thick, 600 mm wide				17	8	135.000	155.000	145.000	0.059
72 118-0900	Wall or ceiling insulation,non-rigid,Fiberglass,unfaced,batts or blankets, 230 mm thick, 600 mm wide				17	8	120.000	138.000	129.000	0.067
72 118-1300	Wall or ceiling insulation, non-rigid, Mineral fiber batts, kraft faced, 90 mm thick	+			17	8	160,000	184.000	172.000	0.050
	Wall or ceiling insulation,non-rigid,Mineral fiber batts,kraft faced, 250 mm thick	1			17	8	135.000	155.000	145.000	0.059
72 200	ROOF & DECK INSULATION					1			111111111111111111111111111111111111111	3,1000
72 202	ROOF FORM BOARD See division 035-304			-VANIE AND		1		THE STREET		
72 203	ROOF DECK INSULATION:		-							
2 203-0012	Roof deck insulation, basalt rock wool, 25 mm frick	SQM	0.125 Labour For 1.000 Rooter,Cor 1.000 Helper		17	8	80.000	92.000	86.000	0.100
2 203-0014	Roof deck insulation, basalt rock wool, 50 mm or 76 mm thick	SQM	1.000 Tools Set		17	8	70.000	81.000	75.500	0.114
and a second	Roof deck insulation,basalt rock wool,tapered for drainage	CU.M			17	8	2.000	3.000	2.500	4.000
	Roof deck insulation, fiberboard low density, 13 mm thick	SQM			17	8	100.000	115.000	107.500	0.080
	Roof deck insulation, liberboard low density, 25 mm thru 50 mm thick	SOM	0.125 Labour For 1.000 Roofer,Cor 1.000 Helper		17	8	80.000	92.000	86.000	0.100
2 203-0120	Roof deck insulation, fiberboard high density, 25 mm thick, or 76 mm thick	1	1.000 Tools Set		17	8	80.000	92.000	86.000	0.100
	Roof deck insulation, fiberglass, 17 mm thick thru, 33 mm thick	+			17	8	100.000	115.000	107.500	0.080
CONTRACTOR OF THE PARTY OF	Roof deck insulation, fiberglass, 57 mm or 60 mm thick	+			17		80.000	92.000	86.000	0.100
CHANGE DEPOS	Roof deck insulation, foamglass, 38 mm thick	-			17	8	80.000	92.000	86.000	0.100
Contract Contract	Roof deck insulation, foamglass, 76 mm thick	1	7776	-	17	8	70.000	81.000	75.500	0.114
- 2000 - 1000	Roof deck insulation,perlite, 13 mm thick	-		-	17	8	105.000	121.000	113.000	0.076
етекциистичем	Roof deck insulation,perfite, 50 mm thick	-			17	8	70.000	81.000	75.500	0.114
erzamanyo (ertenga	Roof deck insulation, peritie, 128 mm thick	-	-		17	8	70.000	81.000	75.500	0.114
end Miller and Line	Roof deck insulation, perfite tapered for drainage	+			17	8	2.000	3.000	2.500	4.000
	Roof deck insulation, Extruded Polystyrene1.05 kg/cm2	+			1	1	15-31-321	200000000		
2 203-1900	compressive strength,50mm thick.	1			17	8	125.000	144.000	134.500	0.064

-	N 07 :THERMAL & MOISTURE PROTECTION		TO MAKE							No.
CODE	ITEM DESCRIPTION	UNIT	7 Apr. 17 (1)	CREW RUCTURE	CREW	CREW EQUIP.	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
072 203-1932	Roat deck insulation,Extruded Polystyrene 1.05 kg/cm2 compressive strength, 100mm				17	8	100.000	115.000	107.500	0.0
072 203-1960	Roof deck insulation, Extruded Polystyrene, 4.21 kg/cm2 compressive strength, 25 mm thick				17	8	145.000	167.000	156,000	0.0
072 203-1962	Roof deck insulation, Extruded Polystyrene, 4.21 kg/cm2 compressive strength, 50 mm				17		120.000	138.000	129,000	0.0
072 203-1964	thick Roof deck insulation, Extruded Polystyrene, 4.21 kg/cm2 compressive strength, 76 mm	++	+	+	17		(Indicate the control of the control	115-5-823/5/5/2		
	Pool deal increasion Estaded Potentiana 4 24 legion 2 community 400 mm	-	-	-	1		98,000	113.000	105.500	0.08
072 203-1966	thick	+	0.125 Labour	- Sommen	17	8	95,000	109.000	102.000	0.08
072 203-1968	for drainage	CUM		Composition	17	8	3.550	4,000	3,775	2.25
072 203-1970	thick	SOM			.17	8	120.000	138.000	129.000	0.06
072 203-1976	Roof deck insulation.Extruded Polystyrene, 8.08 kg/cm2 compressive strength, 100 mm thick.				17	8	90.000	104,000	97.000	0.08
072 203-2020	Roof deck insulation, Expanded polystyrene, 25 mm thick				-17	8	150.000	173.000	161.500	0.08
072 203-2120	Roof deck insulation, Expanded polystyrene, 100 mm thick				17	6	120.000	138.000	129.000	0.00
072 203-2140	The state of the s				17	8	120,000	138.000	129.000	0.06
072 203-2150		CUM		•	1.7	8	3.850	4.000	3.925	2.07
072 400	EXTERIOR INSULATION									
072 401	SANDWICH PANELS See division 061-281									
072 402	EXTERIOR INSULATION FINISH SYSTEM: Exterior insulation finish system, field applied 25 mm thru 100mm thick expanded		0 125 Labour 3.000 Plasters				95000	5.0		
	polystyrene Executed in the finish and to be a set of the set of t	SOM	2.000 Plaster 1.000 Mixing I	Helpers Machine,0 17 M3	41	.8	20.000	23.000	21,500	0.40
072 402-0150	expanded polystyrene, 25 mm to 100 mm thick.			7/	41	8	15.000	17.000	16.000	0.53
072 402-0170	Exterior insulation finish system, expanded polystyrene, 25 mm to 100 mm thick, including 1.80 kg/m2 metal lath substrate			9)	A1	- 8	17.000	20.000	18.500	0.47
072 402-0220	Exterior insulation finish system prefabricated panels with hat channels 64 x 20 mm, and up to 100 mm thick expanded polystyrene		1,000 Struc, S 4,000 Struc, S 2,000 Commo 1,000 Equip, 0 1,000 Hyd, Gra 2,000 Power 1	iteel Workers in Laborers Oper (crane) ane.23 metric for	64	16	135.000	155.000	145.000	0.11
072 402-0260	Exterior insulation finish system, prefabricated panels with 38 mm profile lightweight metal backing, and up to 100 mm thick expanded polystyrene				56	16	135.000	155.000	145.000	0.11
072 402-0440	Exterior insulation finish system, expanded polystyrene, 25 mm to 100 mm thick, including 1.80 kg/m2 metal lath substrate, more than 1 floor building, add each floor	FLOOR								0.03
072 500	FIREPROOFING									
072 554	SPRAYED:									
072 554-0100	Sprayed mineral fiber or cementitious for fireproofing incl tamping. & canvas protection 25 mm thick, on flat plate steel	SOM	0.125 Labour 1.000 Plasters 1.000 Plasters 1.000 Building 1.000 Grouting 1.000 Tools Se	r Helper Laborer g Equipment	25	16	155.000	178.000	166.500	0.10
	Sprayed mineral fiber or cementitious for fireproofing, incl. tamping & canvas protection 25 mm thick, on flat decking				25	16	135.000	155.000	145.000	0.11
72 554-0400	Sprayed mineral fiber or cementitious for fireproofing incl tamping.				25	16	80.000	92.000	86.000	0.20
	& canvas protection 25 mm thick,on beams Sprayed mineral fiber or cementitious for fireproofing incltamping	+					10000000		- 1222000000	1000
	& canvas protection 25 mm thick,on corrugated or fluted decks Sprayed mineral fiber or cementitious for fireproofing incl tamping	-		ļ	25	16	65.000	75.000	70.000	0.24
(2 554-0700	& canvas protection on columns, 30 mm thick				25	16	55.000	63.000	59.000	0.291
	Sprayed mineral fiber or cementitious for fireproofing incl.tamping & canvas protection on columns, 56 mm thick				25	16	35.000	40.000	37.500	0.457
72 554-1000	Fireproofing.Acoustical sprayed, 25 mm thick,finished,straight work, average	SQM	0.125 Labour F 1.000 Plastere 1.000 Plastere 1.000 Building 1.000 Grouting 1.000 Tools Se	r Halper Laborer Equipment	25	16	36.000	41.000	38.500	0.444
72 554-1300	Fireproofing Acoustical sprayed, 25 mm thick, finished, difficult access average				25	15	15.000	17.000	16.000	1.067
	Fireproofing.Sprayed Intrimescent epoxy on wire mesh, 5 mm thick, 1 hour rating, exterior use				25	16	10.000	12.000	11.000	1 660
and the second second	Fireproofing, Sprayed magnesium oxychloride, up to 32 kg density, 6 mm thick				25	16	220.000	253.000	236,500	0.073
72 554-1650	Fireproofing Sprayed magnesium oxychloride up to 32 kg density,13 mm thick				25	16	140.000	161.000	150.500	0.114
72 554-1700	Fireproofing, Sprayed magnesium oxychlorids, 27.2 kg to 31.8 kg density, 6mm thick				25	16	220 000	253.000	236 500	0.078
and the second second second	Fireproofing Vermiculite cement, troweled or sprayed, 13 mm thick	1		1	25	16	140.000	161.000	150.500	0.114
	SHINGLES & ROOFING TILES			THE SE				Care	_	
73								-		
	SHINGLES						OR.	118		
73 100	SHINGLES ALUMINUM SHINGLES						i			A/88 () \$100

CSI	ITEM DESCRIPTION	11000	CREW	CREW	CREW	0.0.	D C 1112	D. O.	AVRG.
CODE	TIEM DESCRIPTION	UNIT	STRUCTUR	E HOURS	EQUIP.	D. O. MIN.	D. O. MAX.	AVRG.	E. H.
73 103-0200	Fiber cement shakes, 237mm x 400 mm, 24.4 kg/m2	SQM	0.125 Labour Foreman 1.000 Carpenter 1.000 Heiper 1.000 Tools Set	17	8	24.000	28.000	26.000	0.33
73 103-0400	Fiber cement hexagonal or square shape, 400 mm x 400 mm			17	8	30.000	35.000	32.500	0,2
073 104	ASPHALT SHINGLES:	- 0							
73 104-0250	Asphalt shingles standard laminated multi-layered shingles, to 12.70 kg/m2	SQM	0.125 Labour Foreman 1.000 Roofer,Composition 1.000 Helper 1.000 Tools Set	17	6	45,000	52.000	48.500	0.1
73 104-0400	Asphalt shingles, premium, laminated multi-layered shingles, 12.70 to 14.65 kg/m2			17	В	55.000	63,000	59.000	0.14
73 104-0800	Felt underlayment, 6 Kg, for asphalt shingles			17	8	650.000	748.000	699.000	0.0
73 104-0825	Felt underlayment, 13 Kg, for asphalt shingles		1	17	8	575.000	661.000	618.000	0.0
73 107	STEEL:								
73 107-0010	Steel shingles,galvanized, 26 gauge or 24 gauge, plain or colored	SQM	0.125 Labour Foreman 1.000 Täe rooter 1.000 Helper 1.000 Tools Set	17	8	24,000	28.000	26.000	0.3
73 108	WOOD:								
73 108-0010	Wood shingles, 400 mm red cedar,125 mm exposure on roof	SQM	0 125 Labour Foreman 1,000 Carpenter 1,000 Helper 1,000 Tools Set	17	8	20.000	23.000	21.500	0.40
73 108-0015	Wood shingles, 400 mm red cedar, 125 mm exposure,on roof,pnenumatic nailed		0.125 Labour Foreman 1.000 Carpenter 1.000 Pneumatic Nailer 1.000 Heliper 1.000 Small compressor 1.000 circular saw	25	16	28.000	32.000	30.000	0.5
73 108-0200	Wood shingles, 400 mm red cedar singles, 190 mm exposure,on walts		0 125 Labour Foreman 1.000 Tile roofer 1.000 Helper 1.000 Tools Set	17	8	18.000	21.000	19.500	0.44
73 108-1100	Wood hand-split red cedar shake, 20 mm thick x 600 mm long, 255 mm exposure on roof			17	8	22.000	25.000	23.500	0.36
73 108-1200	Wood,hand-split red cedar shake, 455 mm long, 216 mm exposure on roof	+1		17	8	20.000	23.000	21.500	0.40
73 108-1205	Wood,hand-split red cedar shake, 455 mm long, 216 mm exposure on roof,pneumatic nalled	SQM	0.125 Labour Foreman 1.000 Carpenter 1.000 Pneumstic Nailer 1.000 Helper 1.000 Small compressor 1.000 Circular saw	25	16	28.000	32.000	30.000	0.57
73 200	ROOFING TILE								
73 201	ALUMINUM:								
73 201-0010	Aluminum tiles, 0.48 mm thick	SOM	0 125 Labour Foreman 1.000 Carpenter 1.000 Tools Set	9	8	20.000	23.000	21,500	0.40
73 202	CLAY TILE:								
73 202-0600	Roof covering Clay tiles, severe weathering including accessories 18.4 pieces/ SQM, red	SOM	0.125 Labour Forettian 1,000 Tile roofer 1,000 Helper 1,000 Tools Set	17	В	15,000	17.000	16.000	0.53
73 202-1100	Roof covering.Clay tiles, severe weathering.including accessories 24.20 pieces/SQM machine scored finish, red			17	8	8.000	9.000	8.500	1.00
73 202-1700	Roof covering, Clay tiles, severe weathering, including accessories 14.3 pieces / SQM, smooth finish, red, blue, or green			11.00	1	10,000	12.000	11.000	0.80
	The state of the s	+		17	8	10.000	1.00000000	20000000	
3 202-2550	Pool governo Clay tibe, source worthwise look dies accessing	SQM	0.125 Labour Foremen 1.000 Tile roofer 1.000 Heiper 1.000 Tools Set	17	8	8.000	9.000	8.500	1.00
3 202-2330	Roof covering, Clay tiles, severe weathering, including accessories	SQM	1.000 Tile roofer 1.000 Helper	-		13.053.55			1.00
73 204	Roof covering Clay tiles, severe weathering including accessories 12.4 pieces / SQM,red		1.000 Tile roofer 1.000 Helper	-		13.053.55			10100
73 204	Roof covering Clay tiles, severe weathering including accessories 12.4 pieces / SQM,red CONCRETE TILE: Concrete tile including installation of accessories.Corrugated.		1.000 Tile roofe: 1.000 Helper 1.000 Tools Set 0.125 Labour Foreman 1.000 Tile roofer 1.000 Helper	17	8	8.000	9.000	8.500	0.66
73 204 73 204-0020 73 204-0500	Roof covering Clay tiles, severe weathering including accessories 12.4 pieces / SQM,red CONCRETE TILE: Concrete tile including installation of accessories.Corrugated, 330 mm x 420 mm, 9.7 tiles/m2, 46 kg/m2 nalled to wood deck		1.000 Tile roofe: 1.000 Helper 1.000 Tools Set 0.125 Labour Foreman 1.000 Tile roofer 1.000 Helper	17	8	8.000	9.000	13.000	0.66
73 204 73 204-0020 3 204-0500 3 204-0500	Roof covering Clay tiles, severe weathering including accessories 12.4 pieces / SQM,red CONCRETE TILE: Concrete tile including installation of accessories.Corrugated, 330 mm x 420 mm, 9.7 tiles/m2, 46 kg/m2 nailed to wood deck Concrete tile, 400 mm x 400 mm.morier bed		1.000 Tile roofe: 1.000 Helper 1.000 Tools Set 0.125 Labour Foreman 1.000 Tile roofer 1.000 Helper	17 17 25	8	8.000 12.000 12.000	9.000	8.500 13.000 13.000	0.66
73 204 73 204-0020 3 204-0500 3 204-0500 74	Roof covering Clay tiles, severe weathering including accessories 12.4 pieces / SQM,red CONCRETE TILE: Concrete tile including installation of accessories. Corrugated, 330 mm x 420 mm, 9.7 tiles/m2, 46 kg/m2 nailed to wood deck Concrete tile, 400 mm x 400 mm.morter bed precst pre-insulated oncrete tile, 200 mm x 200 mm, morter bed		1.000 Tile roofe: 1.000 Helper 1.000 Tools Set 0.125 Labour Foreman 1.000 Tile roofer 1.000 Helper	17 17 25	8	8.000 12.000 12.000	9.000	8.500 13.000 13.000	0.66
73 204 3 204-0020 3 204-0500 3 204-0500 74 74 100	Roof covering Clay tiles, severe weathering including accessories 12.4 pieces / SQM,red CONCRETE TILE: Concrete tile including installation of accessories. Corrugated, 330 mm x 420 mm, 9.7 tiles/m2, 46 kg/m2 nailed to wood deck Concrete tile, 400 mm x 400 mm.morter bed precst pre-insulated oncrete tile, 200 mm x 200 mm, morter bed PREFORMED ROOFING & SIDING		1.000 Tile roofe: 1.000 Helper 1.000 Tools Set 0.125 Labour Foreman 1.000 Tile roofer 1.000 Helper	17 17 25	8	8.000 12.000 12.000	9.000	8.500 13.000 13.000	0.66
73 204 73 204 73 204-0020 3 204-0500 74 100 74 101	Roof covering Clay tiles, severe weathering including accessories 12.4 pieces / SQM,red CONCRETE TILE: Concrete tile including installation of accessories. Corrugated, 330 mm x 420 mm, 9.7 tiles/m2, 46 kg/m2 nailed to wood deck Concrete tile, 400 mm x 400 mm.morter bed precst pre-insulated oncrete tile, 200 mm x 200 mm, morter bed PREFORMED ROOFING & SIDING PREFORMED PANELS	SOM	1.000 Tile roofe: 1.000 Helper 1.000 Tools Set 0.125 Labour Foreman 1.000 Tile roofer 1.000 Helper	17 17 25 25	8	8.000 12.000 12.000	9.000	8.500 13.000 13.000	0.66 0.66 0.80
73 204 73 204-020 73 204-0500 73 204-0500 74 100 74 101 74 101-0300	Roof covering Clay tiles, severe weathering including accessories 12.4 pieces / SQM,red CONCRETE TILE: Concrete tile including installation of accessories. Corrugated, 330 mm x 420 mm, 9.7 tiles/m2, 46 kg/m2 nailed to wood deck Concrete tile, 400 mm x 400 mm.morfer bed precst pre-insulated oncrete tile, 200 mm x 200 mm, morfer bed PREFORMED ROOFING & SIDING PREFORMED PANELS ALUMINIUM ROOFING Aluminum roofing, corrugated or ribbed, 0.44 mm thick to 0.8 mm	SOM	1.000 Tele roofes 1.000 Heigher 1.000 Tools Set 0.125 Labour Foremen 1.000 Tiel roofes 1.000 Tools Set 1.000 Tools Set 0.125 Labour Foremen 2.000 Shoel Media Workers 2.000 Shoel Media Workers 3.000 Building Laborers	17 17 25 25	a a 8	12.000 12.000 10.000	9.000 14.000 14.000	13.000 13.000 11.000	0.66 0.66 0.80
73 204 73 204-020 73 204-0500 73 204-0500 74 100 74 101 74 103	Roof covering Clay tiles, severe weathering including accessories 12.4 pieces / SQM,red CONCRETE TILE: Concrete tile including installation of accessories. Corrugated, 330 mm x 420 mm, 9.7 tiles/m2, 46 kg/m² nailed to wood deck Concrete tile, 400 mm x 400 mm.morter bed precst pre-insulated oncrete tile, 200 mm x 200 mm, morter bed PREFORMED ROOFING & SIDING PREFORMED PANELS ALUMINIUM ROOFING Aluminum roofing.corrugated or ribbed, 0.44 mm thick to 0.8 mm thick,on steel framing.	SOM	1.000 Tele roofes 1.000 Heigher 1.000 Tools Set 0.125 Labour Foremen 1.000 Tiel roofes 1.000 Tools Set 1.000 Tools Set 0.125 Labour Foremen 2.000 Shoel Media Workers 2.000 Shoel Media Workers 3.000 Building Laborers	17 17 25 25	a a 8	12.000 12.000 10.000	9.000 14.000 14.000	13.000 13.000 11.000	0.66 0.66 0.80
73 204 73 204-0200 73 204-0500 73 204-0500 74 100 74 101 74 103 74 103 74 104	Roof covering Clay tiles, severe weathering including accessories 12.4 pieces / SQM,red CONCRETE TILE: Concrete tile including installation of accessories. Corrugated, 330 mm x 420 mm, 9.7 tiles/m2, 46 kg/m2 nailed to wood deck Concrete tile, 400 mm x 400 mm.morter bed precst pre-insulated oncrete tile, 200 mm x 200 mm, morter bed PREFORMED ROOFING & SIDING PREFORMED PANELS ALUMINIUM ROOFING Aluminum roofing.corrugated or ribbed, 0.44 mm thick to 0.8 mm thick,on steel framing. CURTAIN WALL See division 089	SOM	1.000 Tele roofes 1.000 Teles Set 1.000 Tools Set 1.000 Tools Set 0.125 Labour Foreman 1.000 Tile roofes 1.000 Tools Set 1.000 Tools Set 0.125 Labour Foreman 2.000 Sheet Metal Workers 2.000 Power Tools 0.125 Labour Foreman 2.000 Sheet Metal Workers 2.000 Power Tools 0.125 Labour Foreman	17 17 25 25 25	a a 8	12.000 12.000 10.000	9.000 14.000 14.000	13.000 13.000 11.000	0.66 0.60 0.80
73 204 73 204-0200 73 204-0500 73 204-0500 74 100 74 101 4 101-0300 74 103 74 104 4 104-0010	Roof covering Clay tiles, severe weathering including accessories 12.4 pieces / SQM,red CONCRETE TILE: Concrete tile including installation of accessories. Corrugated, 330 mm x 420 mm, 9.7 tiles/m2, 46 kg/m2 nailed to wood deck Concrete tile, 400 mm x 400 mm.morter bed precst pre-insulated oncrete tile, 200 mm x 200 mm, morter bed PREFORMED ROOFING & SIDING PREFORMED PANELS ALUMINIUM ROOFING Aluminum roofing.corrugated or ribbed, 0.44 mm thick to 0.8 mm thick, on steel framing CURTAIN WALL See division 089 FIBERGLASS:	SOM	1.000 Teleprofes 1.000 Teleprofes 1.000 Tools Set 1.000 Tools	17 17 25 25 25	8 8 8	12.000 12.000 10.000	9.000 14.000 12.000	13.000 13.000 11.000	0.66 0.66 0.80
73 204 73 204 73 204-020 73 204-0500 73 204-0500 74 101 4 101-0300 74 103 74 104 4 104-0100	Roof covering Clay tiles, severe weathering including accessories 12.4 pieces / SQM,red CONCRETE TILE: Concrete tile including installation of accessories. Corrugated, 330 mm x 420 mm, 9.7 tiles/m2, 46 kg/m2 nailed to wood deck Concrete tile, 400 mm x 400 mm.morier bed precst pre-insulated oncrete tile, 200 mm x 200 mm, morter bed precst pre-insulated oncrete tile, 200 mm x 200 mm, morter bed PREFORMED ROOFING & SIDING PREFORMED PANELS ALUMINIUM ROOFING Aluminum roofing.corrugated or ribbed, 0.44 mm thick to 0.8 mm thick, on steel framing. CURTAIN WALL See division 089 Fiberglass corrugated panels, roofing 2.44 kg/m2	SOM	1.000 Tele roofes 1.000 Teles Set 1.000 Tools Set 1.000 Tools Set 0.125 Labour Foreman 1.000 Tile roofes 1.000 Tools Set 1.000 Tools Set 0.125 Labour Foreman 2.000 Sheet Metal Workers 2.000 Power Tools 0.125 Labour Foreman 2.000 Sheet Metal Workers 2.000 Power Tools 0.125 Labour Foreman	17 17 25 25 25 25	8 8 8 8 16 16 16 16 16 16 16 16 16 16 16 16 16	12.000 12.000 10.000 100.000	9.000 14.000 12.000 115.000	13.000 13.000 11.000 107.500	0.66 0.66 0.80
73 204 73 204 73 204-020 73 204-0500 73 204-0500 74 101 74 101 74 103 74 104 74 104-0100 74 104-0700	Roof covering Clay tiles, severe weathering including accessories 12.4 pieces / SQM,red CONCRETE TILE: Concrete tile including installation of accessories. Corrugated, 330 mm x 420 mm, 9.7 tiles/m2, 46 kg/m2 nailed to wood deck Concrete tile, 400 mm x 400 mm.morter bed precst pre-insulated oncrete tile, 200 mm x 200 mm, morter bed PREFORMED ROOFING & SIDING PREFORMED PANELS ALUMINIUM ROOFING Aluminum roofing.corrugated or ribbed, 0.44 mm thick to 0.8 mm thick, on steel framing. CURTAIN WALL See division 089 FIBERGLASS: Fiberglass corrugated panels, roofing 2.44 kg/m2	SOM	1.000 Tele roofes 1.000 Teles Set 1.000 Tools Set 1.000 Tools Set 0.125 Labour Foreman 1.000 Tile roofes 1.000 Tools Set 1.000 Tools Set 0.125 Labour Foreman 2.000 Sheet Metal Workers 2.000 Power Tools 0.125 Labour Foreman 2.000 Sheet Metal Workers 2.000 Power Tools 0.125 Labour Foreman	17 17 25 25 25 25	8 8 8 16 16 16 16 16 16 16 16 16 16 16 16 16	12.000 12.000 10.000 100.000 90.000	9,000 14,000 12,000 115,000 104,000 92,000	8.500 13.000 13.000 11.000 107.500 97.000 86.000	0.66 0.66 0.80 0.16

CSI	N 07 :THERMAL & MOISTURE PROTECTION	200		DEW.	CDS	COL	PART PAR		N. P. Carlotte	Marie States
CODE	ITEM DESCRIPTION	UNIT	1	REW JCTURE	HOURS	EQUIP.	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
074 106	STEEL DECKING See division 053	104								
074 107	STEEL ROOFING:									
074 107-0010	D Steel roofing on steel frame.corrugated or ribbed.galv., 30 ga	SOM	0.125 Labour Fo 2,000 Sheet Me 3,000 Building L 2,00 Power Too	tal Workers aborers	25	16	100.000	115.000	107.500	0,16
074 107-0300	Steel roofing on steel frame corrugated or ribbed galv., 25, ga.				25	16	90.000	104,000	97.000	0.17
074 107-0400	Steel roofing on steel frame, corrugated or ribbed, galv., 24 ga				25	16	85.000	98.000	91.500	0.18
074 107-0710	Steel rooting, on steel frame flat profile, 44 mm locking seams. 255 mm wide, 26 ga.				25	16	90.000	104.000	97.000	0.17
074 107-071	Steel rooting on steel frame, flat profile, 44 mm locking seams, 255 mm wide, 24 ga				25	16	85.000	98.000	91.500	0.18
074 107-0720	Steel roofing on steel frame, flat profile, 44 mm locking seams,	11			25	16	80.000	92.000	86.000	0.200
74 107-074 (255 mm wide, 22 ga. Steel roofing on steel frame, flat profile, 44 mm locking seams,	+++	+		25	16	B5 000	98.000	91.500	0.188
Marin See Section	300 mm wide, 24 ga	-	-						0.000000000	77,000
074 107-0750	aluminum alloy finish 24 ga				25	16	85,000	98.000	91.500	0.188
074 107-0840	Steel roofing on steel frame, flat profile,25mm x 9.5mm batt 306mm wide 22ga.		1		25	16	80.000	92.000	86.000	0.200
	Steel roofing,Flat profile,420mm wide,22 ga	.			25	16	80.000	92.000	86.000	0.200
074 200	COMPOSITE PANELS									
074 201	EXPOSED AGGREGATE PANELS:									
74 201-1400	Exposed aggregate panels, fiberglass polymer back-up, medium size aggregate	SOM	0.125 Labour Fo 4.000 Carpenter 1.000 Equip Ope 1.000 Hyd Crane 2.000 Power To	s er (crane) e.11 metric ton	41	24	35.000	40.000	37.500	0.686
074 202	METAL FACING PANELS:	4	(Constant of the Constant of t							
D74 202-0300	Metal facing panels, Field assembled, insulated sandwich wall panels, 0 over 500 m2, 16 ga, aluminum exterior, 38 mm fiberglass and 18 ga galvanized steel interior	SOM	0 125 Labour Fo 2 000 Sheet Met 3 000 Building L 2 00 Power Tool	tal Workers aborers	25	16	13.000	15.000	14.000	1.231
074 202-0600	over 500 m2, 18 ga galvanized steel both sides				25	16	13.000	15.000	14.000	1.231
074 202-0700	Metal facing panels, Field assembled, insulated sandwich wall panels; over 500 m2, 20 ga. stainless steel exterior face				25	16	13.000	15.000	14.000	1.231
D74 202-1200	Metal facing,Factory made sandwich wall panels,acrylic coated, 0.25 mm alum.face on 8 mm plywood core				25	16	20.000	23.000	21.500	0.800
074 202-1400	Metal facing, Factory made sandwich wall panels, 28 ga,porcelain) enamel face, insulated cores, hardboard.stabilizer and galvanized back, 25 mm or 50 mm thick				25	16	20.000	23.000	21.500	0.800
074 202-3100	Metal facing panels, Factory made sandwich wall panels, 28 ga, porcelain enamel 2 sides6mm thick mineral fiber core			,	25	16	20 000	23.000	21.500	0.800
074 600	CLADDING/SIDING									
074 602	ALUMINUM SIDING:		T-							
074 602-0010	Aluminum siding, 0.48 mm thick on steel construction	SQM	0 125 Labour Fo 2,000 Sheet Met 3,000 Building Li 2,00 Power Tool	al Workers aborers	33	24	75.000	86.000	80.500	0.320
074 602-0700	Aluminum siding, Industrial type, corrugated, 0.60 mm thick on steel				33	24	75.000	86.000	80.500	0.320
74 602-2750	Aluminum eiding Dishad 76 mm profile on stool tramed 07 mm	11			33	24	75.000	86.000	80.500	0.320
74 602-3100	Aluminum siding.Perforated.corrugated,14% openings, 0.60 mm thick				33	24	75.000	86.000	80.500	0.320
HIIIA PERSONALUZACIO	Aluminum siding, Ribbed, 76 mm profile, on wood frame, 1.27 mm thick				39	24	95.000	110.000	102.500	0.253
74 602-3630	Flashing for aluminum sidewall or end wall to 1 mm thick	LM			33	24	185.000	213.000	199.000	0.130
74 602-4600	Aluminum siding Sandwich panels, with 25 mm insulation, single story building	SOM			33	24	24.000	28.000	26.000	1.000
074 602-4900	Aluminum siding. Sandwich panels, with 25 mm insulation, multi story building				33	24	20.000	23 000	21,500	1.200
074 606	STEEL SIDING:	,								
74 606-0010	Steel siding. Beveled, vinyl coated. 200 mm wide	SQM	0.125 Labour For 1,000 Carpenter 1,000 Helper 1,000 Tools Set	reman	17	8	18.000	21.000	19.500	0.444
	Steel siding. Beveled, vinyl coated, 250 mm wide		9	+	17.	В	20.000	23.000	21.500	0.400
74 606-0050	Steel staring beveled, virily coated, 250 mm wide		0.125 Labour For		33	16	75.000	86.000	80.500	0.513
	Steel siding Galv.corrugated or ribbed,on steel frame, 30 gauge to 22 gauge		2 000 Sheet Meta 3 000 Building La 2 00 Power Tools				14			0.800
74 606-0080					33	16	20.000	23.000	21,500	
74 606-0080 74 606-1200	Steel siding, Galv. corrugated or ribbed on steel frame, 30 gauge to 22 gauge Steel siding, Factory sandwich panel, 26 ga., 25mm insulation, gawanized Steel siding, Factory sandwich panel, 22 ga., galv. 50 mm insulation, baked enamel		3 000 Building La			16	20.000	23,000	19.500	0 889
74 606-0080 74 606-1200 74 606-2000	Steel siding.Galv.corrugated or ribbed,on steel frame, 30 gauge to 22 gauge Steel siding.Factory sandwich panel, 26 ga., 25mm insulation,gavanized		3 000 Building La		83			5000000		0 889
074 606-0080 074 606-1200 074 606-2000 074 607	Steel siding, Galv. corrugated or ribbed on steel frame, 30 gauge to 22 gauge Steel siding, Factory sandwich panel, 26 ga., 25mm insulation, galvanized Steel siding, Factory sandwich panel, 22 ga., galv. 50 mm insulation, baked enamel exterior.	SOM	3 000 Building Le 2 00 Power Tools 0 125 Labour For 1,000 Carpente		83			5000000		0.889
074 606-0080 074 606-1200 074 606-2000 074 607 074 607-0100	Steel siding, Galv.corrugated or ribbed on steel frame, 30 gauge to 22 gauge Steel siding, Factory sandwich panel, 26 ga., 25mm insulation, galvanized Steel siding, Factory sandwich panel, 22 ga., galv. 50 mm insulation, baked enamel exterior VINYL SIDING: Vinyl siding, Solid PVC panels, 200mm to 250 mm wide	SOM	3 000 Building Le 2 00 Power Tools 0 125 Labour For		83	16	18.000	21.000	19.500	
074 606-0080 074 606-1200 074 606-2000 074 607 074 607-0100 074 609	Steel siding Galv.corrugated or ribbed, on steel frame, 30 gauge to 22 gauge Steel siding Factory sandwich panel, 26 ga., 25mm insulation, galvanized Steel siding Factory sandwich panel, 22 ga., galv. 50 mm insulation, baked enamel exterior VINYL SIDING:	SOM SOM	3 000 Building Le 2 00 Power Tools 0 125 Labour For 1,000 Carpente	s Perman	83	16	18.000	21.000	19.500	
074 606-0080 074 606-1200 074 606-2000 074 607 074 607-0100 074 609	Steel siding Galv.corrugated or ribbed, on steel frame, 30 gauge to 22 gauge Steel siding Factory sandwich panel, 26 ga., 25mm insulation, galvanized Steel siding Factory sandwich panel, 22 ga., galv. 50 mm insulation, baked enamel exterior VINYL SIDING: Vinyl siding Solid PVC panels, 200mm to 250 mm wide WOOD SIDING, BOARDS:		0.125 Labour For 1.000 Carpenter 1.000 Carpenter 1.000 Carpenter 1.000 Carpenter 1.000 Carpenter	emun emun	33 33 9	16	18.000	21.000	19.500	0.400



NAME OF TAXABLE PARTY.	N 07:THERMAL & MOISTURE PROTECTION									machine N	
CODE	ITEM DESCRIPTION	UNIT		CREW STRUCTU		OURS	CREW EQUIP.	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
74 609-4700	Wood siding, boards, redwood, beveled, vertical grain, 13 mm x 100 mm			1		17	8	16.000	18.000	17.000	0.5
4 609-4800	Wood siding, boards, redwood, beveled, vertical grain, 13 mm x 200 mm		2.	125 Labour Foreman 000 Sheet Metal Wor 000 Building Laborer 00 Power Tools	rkers	25	16	20.000	23.000	21.500	0.8
74 609-5250	Wood siding, boards, redwood, Tounge & Groove boards, 25 mm x 200 mm		1			25	16	24.000	28.000	26.000	0.6
4 609-5400	Wood siding, boards, white pine, rough sawn, 25 mm x 200 mm		Ť			25	16	22,000	25.000	23.500	0.7
74 611	WOOD PRODUCT SIDINGS:	3 60									
74 611-0050	Wood lap siding hardboard, 11 mm x 200 mm wood grain texture finish	SQM	1.	125 Labour Foreman 000 Sheet Metal Wor 000 Building Laborer 00 Power Tools	rkers	25	16	70.000	81.000	75.500	0.2
74 611-0100	Wood panel siding 11 mm thick, smooth, textured or grooved	IT	-	oo romai roma		25	16	75.000	86.000	80.500	0.2
	Wood particle board siding,overlaid, 10 mm thick		2.	125 Labour Foreman 00 Carpenters 00 Power Tools		25	16	80.000	92.000	86.000	0.2
74 611-0900	Wood siding plywood medium density overlaid, 10 mm thick		-	do romo rodio		25	16	80.000	92.000	86.000	0.2
	Wood siding plywood medium density overlaid, 20 mm thick		+			25	16	75.000	86.000	80.500	0.2
74 611-2800	Wood siding, Plywood, redwood, textured siding, 16 mm thick	+	+			25	16	70.000	81.000	75.500	0.2
10.0	Wood siding, Plywood, polyvinyl chloride coated, 10 mm thick		+	40		25	16	75.000	86.000	80,500	0.2
75	MEMBRANE ROOFING	1	1								
75 100	BUILT-UP ROOFING			200							
75 101	ASPHALT:					-	1		-		
75 101	ASTRACT.		10:	125 Labour Foreman			+				
75 101-0500	Asphalt Coated felt.13 kg, 18.6 m2/roll, not mopped	SOM	1.0	000 Roofer,Composit 000 Helper 000 Tools Set	ion	9	Б	517.500	595.000	556.250	0.0
75 101-0600	Asphalt Coated felt, roll roofing 40 kg.	7992		796		9	8	135.000	155.000	145.000	0.0
75 102	BUILT-UP ROOFING:										200.752
75 102-0200	Built-up roofing. Aspahlt flood coat with gravel/slag surfacing, base sheet, 3 plies 6 kg asphalt felt, mopped	SQM	1.0	125 Labour Foreman 000 Plasterer 000 Plasterer Helper 000 Building Laborer 000 Grouting Equipm		25	8	155.000	178.000	166.500	0.0
75 102-0500	Built-up roofing,Aspahlt flood coat with gravel/slag surfacing,base sheet, 4 piles 6 kg. asphalt felt,mopped					25	8	135.000	155.000	145.000	0.0
5 102-2200	Built-up roofing. Asphalt flood coat, smooth surface, asphalt base sheet & 3 piles 6 kg, asphalt felt, mopped			1		25	8	170.000	196.000	183.000	0.0
75 102-2700	Built-up roofing Asphalt flood coat, smooth surface, asphalt base sheet & 4 piles 6 kg, asphalt felt.	SOM	1.0	125 Labour Foreman 000 Plasterer 000 Plasterer Helper 000 Building Laborer 000 Grouting Equipme	ent	25	8	170.000	196.000	183.000	0.0
75 102-3800	Built-up roofing.coal tar pitch with coated glass fiber base sheet and 4 piles glass fiber felt,mopped		T	Q#(C.)		25	8	135.000	155.000	145.000	0.0
75 103	CANTS:		-10				1				
75 103-0010	Cants,100 mm x 100 mm treated timber,cut diagonally	SQM	1.0	125 Labour Foremen 100 Roofer Compositi 100 Tools Set	ion	9	8	80.000	92.000	86.000	0.1
75 104	FELT:		58								
75 104-0010	Felt glass fibered, 6 kg,no mopping	SQM	1.0	25 Labour Foreman 300 Roofer Compositi 300 Helper	ion	17	8	517.500	595.000	556.250	0.0
5 104-0011	Felt glass fibered, 22 kg,no mopping		11.5	000 Tools Set		17	8	517.500	595.000	556.250	0.0
Service State of the Control of the	Asphalt felt 6 kg 37.2 m2/roll,no mopping	-	+	7/05		17		517.000	595.000	556,000	0.0
75 200	PREPARED ROLL ROOFING	'n			-		-	511,000	030.000	000,000	0.0
75 204	ROLL ROOFING:		-			-	+				_
	Roll roofing, Asphalt, mineral surface, 1 ply 6 kg., organic felt, 1 ply mineral surfaced, selvage roofing, lap 480 mm, mopped	SOM	1.0	25 Labour Foreman XXX Plasterer XXX Plasterer Helper XXX Building Laborer		25		185.000	213.000	199.000	0.04
	Roll roofing.Asphalt,mineral surface, 3 plies glass fiber felt, 1 ply mineral surfaced, selvage roofing, lap 480 mm, mopped		1.0	00 Grouting Equipme	ent	25	8	175.000	201.000	188.000	0.0
	ELASTOMERIC ROOFING	1	1							100	
	ELASTOMERIC ROOFING: For Elastoimeric waterproofing, se	ee divi	isio	n 071-102							
	Elastomeric roofing, Hypalon neoprene, fluid applied, 0.5 mm thick, not-reinforced.	SOM	0.1 1.0 1.0	25 Labour Foreman 100 Plasterer 100 Plasterer Helper 100 Building Laborer		25	8	80.000	92.000	86.000	0.10
5 301-0900	Elastomeric roofing, 5 coat neopretie deck, 1.5 mm thick		11.0	IOC Grouting Equipme	rot .	25	8	30.000	35.000	32.500	0.26
	Elastomeric roofing, 5 coat neoprene deck, 1.5 mm trick Elastomeric roofing, Neoprene membrane, 1.6 mm thick	-	+			25	8	90.000	104.000	97.000	0.0
and the second		-	+		-	25	8	50.000	58.000	54.000	0.00
	Elastomeric roofing, Vinyt plastic traffic deck, sprayed, 0.05 to 0.10 mm thick Elastomeric roofing, Polyurethane spray-on with 0.5 mm silicone rubber coating applied,	-	-			-	17	1	17652 AREC-	100000000000000000000000000000000000000	2000
	25 mm thick, average labor			1		25	8	60.000	69.000	64.500	0.1
	Elastomeric roofing, Polyurethane spray-on with 0.5 mm silicone rubber coating applied	_	-								

CSI	ON 07 :THERMAL & MOISTURE PROTECTION		CD	EW	CREW	CDEW			C C	AVEC
CODE	ITEM DESCRIPTION	UNIT		CTURE	HOURS	CREW EQUIP.	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
75 301-210	Elastomeric roofing. Polyurethane spray-on with 0.5 mm silicone rubber coating applied 76 mm thick, average labor				25	8	35,000	40.000	37.500	0.23
075 302	SINGLE-PLY MEMBRANE:									
	Single-ply membrane, Ethylene propylene diene monomer (EPDM),		1 Roofer Foreman 2 Roofers Compa		3		1922		1	
75 302-350	1 mm, 1.37 kg/m2 loose-laid & ballasted with stone (50 kg/m2)	SQM	2 Rooter Heipers 1 Application Equi	ESSENIA Service	40	8	350.000	403,000	376.500	0.02
75 302-370	Single-ply membrane, Ethylene propylene diene monomer (EPDM), 1 mm, 1.37 kg/m2	T	13 Application Equi	prien	40	В	245,000	282.000	263.500	0.03
	partially adhered. & allasted with stone (50 Kg/m2)	-	-				S-14,5958,601	(25000000000	263,500	0.03
75 302-3800	fully adhered with dhesive& ballasted with stone (50 Kg/m2)				40	8	180.000	207.000	193.500	0.04
75 302-4200	Single-ply membrane, Ethylene propylene diene monomer (EPDM), 1.4mm,1.71 kg/m2 loose-laid & allasted with stone (49 kg/m2), partially adhered				40	.8	245.000	282.000	263.500	0.03
75 302-4300	Single-ply membrane, Ethylene propylene diene monomer (EPDM), 1.4mm, 1.71 kg/m2				40	8	180.000	207.000	193.500	0.04
75 302-7500	loose-laid & allasted with stone (49 kg/m2), fully adhered with adhesive Single-ply membrane Polyisobutylene (PIB),3mm,2,78 kg/m2,partially adhered with				40		245.000	282.000	A POST V MODE	70.00
-7400003-103800	Sizelle plu membrane Bohaseh tridene (BID) 2 mm 2 78 km m2 mediali, a diseasi utti had	-	-				245,000	282.000	263,500	0.00
75 302-7800	asphalt.				40	8	245.000	282,000	263.500	0.03
75 302-8200	Single-ply membrane, Polyvinyl chloride (PVC), heat welded seams, reinforced, 1.2mm, 1.61 kg/m2 loose- laid & ballasted with stone/gravel (58.6 kg/m2)				40	8	350.000	403.000	376.500	0.02
	Single-ply membrane, Polyvinyl chloride (PVC), heat welded seams, reinforced, 1.2mm,						Series and	110		
75 302-8800	0.1.61 kg/m2, partially adhered with mechanical fastners & ballasted with stone/gravel (56.6 Kg/m2)				40		245.000	282.000	263.500	0.03
75 302-8850	5 Single-ply membrane, Polyvinyl chloride (PVC), heat welded seams, reinforced, 1.2mm, 1.61 kg/m2, fully adhered with adhesive & ballasted with stone/grave (58.6 Kg/m2)				40	8	180.000	207.000	193.500	0.04
75 302-8860	Single-ply membrane, Polyvinyl chloride(PVC), heat welded seams, reinforced, 1.5mm,2.1 b kg/m2 loose-laid & ballasted with stone/gravel (58.6 kg/m2), partially adhered with mechanical fastners				40	ā	350 000	403 D00	376.500	0.02
75 302-8890	Simple by marrity and Polyagraf chlorida (PVC) has tupled examp conformed 1 5mm 2.1				40	В	180.000	207.000	193.500	0.04
075 350	MODIFIED BITUMIN ROOFING:		1							
75 352	MODIFIED BITUMEN:						-			
773 332	MODIFIED BITOMEN.		1 Roofer Foreman		-	-				
75 352-0100	0 Modified Bitumen roofing, 3mm, 4.49 kg/m2, fully adhered with torch welding	SQM	2 Roofers Compact 2 Roofer Heipers 1 Application Equi		40	6	200.000	230.000	215.000	0.04
75 352-0200	Modified Bitumen roofing, 4mm, 4,00 kg/m2; loose-laid & ballasted with gravel(20 kg/m2)	SOM	Rooter Foreman Rooters, Compsc Rooter Helpers Application Equa	DA DESCO	40	8	210.000	242,000	226.000	0.03
75 352-0400	Modified Bitumen roofing, 4 mm, 4.00 kg/m2, partially adhered with torch welding &				40	8	180.000	207.000	193.500	0.04
75.050.050	ballasted with gravel (20 Kg/m2) Modified Bitumen rooting, 4mm, 4 00 kg/m2 fully adhered with torch welding &	-	-				200000000	F,8801267863	14 20 20 20 20 20 20 20 20 20 20 20 20 20	Maleka
75 352-0500	ballasted with gravel (20 Kg/m2).				40	8	140.000	161.000	150.500	0.05
75 352-0700	Modified Bitumen roofing 4mm, 3.8 to 5.86 Kg/m2, with asphalt emulsion coating, bose laid & blasted with stone/gravel 50 kg/ SQM				4 D	:8	200.000	230.000	215.000	0.04
076	FLASHING & SHEET METAL									
76 100	SHEET METAL ROOFING									
76 101	COPPER ROOFING:									
76 101-0010	Copper roofing batten seam, over 100 m2, 454 gram, 6,34 kg/m2	SOM	0.125 Labour Fore 1.000 Sheet Metal 1.000 Helper		17	8	7.000	8.000	7,500	1,14
76 101 0200	100 - 0 F07 - 704 - 0	-	1.000 Tools Set		17		6 000	7.000	5.500	4.00
	Copper roofing hatten seam,over 100 m2, 567 gram, 7.81 kg/m2 Copper roofing standing seam,over 100 m2, 567 gram, 7.82 kg/m2	+	-		17	8	6.000	7.000	6.500	1.33
		-			17	8	7.000	8.000	7.500	1.14
	Copper roofing fial seam, over 100 m2, 567 gram, 7.08 kg/m2 Copper roofing batten seam, less than 100 m2 and in restricted areas, 567 gram, 7.08	-			-		7.000	8.000	7.500	1.14
76 101-1200	kg/m2	Į.	↓		17	8	4.000	5.000	4.500	2 00
76 102	LEAD ROOFING:									
76 102-0010	Lead roofing, 24.40 kg/m2,batten seam	SQM	0.125 Labour Fore 1,000 Sheet Metal 1,000 Tools Set		9	8	8.000	9.000	8,500	1.00
76 102-0100	Lead roofing, 24.40 kg/m2,flat seam				.9	8	9,000	10.000	9.500	0.88
76 103	MONEL ROOFING:									
76 103-0100	Monel rooting, batten seam, over 100 m2, 0.5 mm thick	SQM	0.125 Labour Fore 1.000 Sheet Metal 1.000 Tools Set		9	8	8,000	9.000	8.500	1.00
76 103-0300	Monel roofing standing seam, over 100 m2, 0.5 mm thick				9	8	9.000	10.000	9.500	0.88
76 103-0600	Monel roofing flat seam, over 100 m2, 0.46 mm thick	+		-3122.27	9	8	10.000	12.000	11.000	G 64
76 104	STAINLESS STEEL ROOFING:									
76 104-0050	Stinless steel roofing type 304 batten seam, 28 gauge	SOM	0.125 Labour Forei 1.000 Sheet Metal 1.000 Tools Set		9	8	9.000	10.000	9.500	0.88
76 104-0100	Stinless steel roofing,type 304,batten seam, 26 gauge	40			9	8	7.500	9.007	8.250	1.06
76 105	ZINC									
			0 125 Labour Fores		9	8	8.000	9.000	81.101	1 2
6 105-0100	Zinc copper alloy roofing batten seam 0.7mm thick	SQM	1.000 Sheet Metal	WORKE!		Ĭ		0.000		
	Zinc copper alloy roofing batten seam 0.7mm thick Zinc copper alloy roofing batten seam 1 mm thick	SQM	1.000 Sheet Metal 1.000 Tools Set	Worker	9	8	6.500	7.000	6.750	1.23

076 201-0400 Downspouts alur 076 201-0700 Downspouts, rou 076 201-0900 Aluminum wire st 076 201-1500 Downspouts, cop 076 201-1800 Downspouts, cop 076 201-1900 Downspouts, cop 076 201-3400 Copper wire stra 076 201-3400 Downspouts, stee 076 201-5400 Downspouts, stee 076 201-5400 Downspouts, stee 076 201-5400 Galvanized steel 076 201-6600 Galvanized steel 076 201-7500 Downspouts, stee 076 201-7600 Downspouts, stee 076 201-7600 Downspouts, stee 076 201-7600 Downspouts, stee 076 201-7800 Downspouts, stee 076 201-7800 Downspouts, stee 076 201-8100 Downspouts, stee 076 201-800 Downspouts, stee 076 202-0300 Drip edge, alumin 076 202-0400 Drip edge, steel, g 076 203 ELBOW: 076 203 ELBOW: 076 203 Elbow copper, 45 <t< th=""><th colspan="2">N 07 :THERMAL & MOISTURE PROTECTION</th><th colspan="2">OPEW</th><th>1</th><th></th><th></th><th></th><th>D.C</th><th>Allen</th></t<>	N 07 :THERMAL & MOISTURE PROTECTION		OPEW		1				D.C	Allen
176 201-0300 Downspouts alum 176 201-0400 Downspouts alum 176 201-0700 Downspouts alum 176 201-0700 Downspouts, rought 176 201-0700 Downspouts, cop 176 201-1500 Downspouts, cop 176 201-1900 Downspouts, cop 176 201-2700 Copper wire strain 176 201-3400 Copper wire strain 176 201-3400 Downspouts, stee 176 201-5400 Downspouts, stee 176 201-5400 Downspouts, stee 176 201-5400 Downspouts, stee 176 201-5400 Downspouts, stee 176 201-7500 Downspouts, stee 176 201-7500 Downspouts, stee 176 201-7500 Downspouts, stee 176 201-7500 Downspouts, stee 176 201-7600 Downspouts, stee 176 201-7600 Downspouts, stee 176 201-7600 Downspouts, stee 176 201-7600 Downspouts, stee 176 201-800 Downspouts, stee 176 202-0400 Drip edge, alumin 176 203-0400 Drip edge, alumin 176 203-0400 Drip edge, stee 176 203-0500 Drip edg	ITEM DESCRIPTION		CREW STRUCTURE		HOURS	EQUIP	ID O MIN	N. D. O. MAX.	D. O. AVRG.	AVRG. E. H.
76 201-0400 Downspouts alum 76 201-0700 Downspouts, rou 76 201-0900 Aluminum wire st 76 201-1900 Downspouts, cop 76 201-1900 Downspouts, cop 76 201-1900 Downspouts, cop 76 201-2700 Copper wire stra 76 201-3400 Copper wire stra 76 201-3400 Downspouts, stee 76 201-5700 Downspouts, stee 76 201-6600 Galvanized steel 76 201-7500 Downspouts, stee 76 201-7500 Downspouts, stee 76 201-7600 Downspout	SPOUTS:									
76 201-0700 Downspouts, rou 76 201-0900 Aluminum wire st 76 201-1800 Downspouts, cop 76 201-1800 Downspouts, cop 76 201-1900 Downspouts, cop 76 201-1900 Downspouts, cop 76 201-2700 Copper wire stra 76 201-3400 Downspouts, stee 76 201-4900 Downspouts, stee 76 201-5700 Downspouts, stee 76 201-5700 Downspouts, stee 76 201-6600 Galvanized steel 76 201-7500 Downspouts, steel 76 201-8200 Downspouts, steel 76 201-8200 Downspouts, steel 76 201-8200 Downspouts, steel 76 202-0300 Drip edge, alumin 76 203 ELBOW: 6 202-0300 Drip edge, steel, g 76 203 ELBOW: 6 203-0400 Elbow copper, 45 6 203-0500 Elbow copper, 45 6 203-0500 Elbow copper, 45 6 203-1300 Elbow copper, 45 6 203-1400 Flashing copper, 6 204-	Downspouts aluminum 50 mm x 76 mm, 0.50 mm thick	LM	0.125 Labour Foreman 1.000 Sheet Metal Worker 1.000 Tools Set		9		a 45.000	52.000	48.500	0.1
16 201-0900 Aluminum wire strate	outs aluminum 76 mm x 100 mm,enameled, 0.60mm thick				9		8 35.000	40.000	37,500	0.3
16 201-0900 Aluminum wire strate	outs,round,corrugated aluminum,100 mm diameter, 0.60 mm thick				9		35.000	40.000	37.500	0.3
6 201-1500 Downspouts,cop 6 201-1800 Downspouts,cop 6 201-1900 Downspouts,cop 6 201-2700 Copper wire stra 6 201-3400 Copper wire stra 6 201-3400 Downspouts,stee 6 201-5700 Downspouts,stee 6 201-5700 Downspouts,stee 6 201-7500 Downspouts,stee 6 201-7500 Downspouts,stee 6 201-7600 Downspouts,stee 6 201-800 Elbow copper 6 202-900 Downspouts,stee 6 201-800 Elbow copper 6 203-900 Elbow copper 6 203-900 Elbow copper 6 204-800 Flashing shower 6 204-800 Flashing stee 6 205 GUTTERS:	wire strainer,round upto 100 mm,or rectangular 76 mm x 100 mm.				9		8 120.000	138.000	129.000	0.1
76 201-1800 Downspouts.cop 76 201-2700 Copper wire stra 76 201-3400 Copper wire stra 76 201-3400 Downspouts.stee 76 201-5400 Downspouts.stee 76 201-5700 Downspouts.stee 76 201-6600 Galvanized steel 76 201-7500 Downspouts.stee 76 201-7600 Downspouts.stee 76 202-0300 Drip edge.alumin 76 202 DRIP EDGE: 76 203 ELBOW: 76 204 Elbow copper, 45 76 203-1300 Elbow copper, 45 76 203-1400 Elbow copper, 45 76 204-010 Flashing aluminum 76 204 FLASHING: 76 204-1400 Flashing copper, 76 204-1400 Flashing copper, 76 204-1400 Flashing copper, 76 204-1400 Flashing copper, 76 204-1400 Flashing shower programs 76 204-1400 Flashing	outs,copper,round,454 gram,76 mm diameter	+			9		8 45.000	52.000	48.500	0.
76 201-1900 Downspouts.cop 76 201-3400 Copper wire stra 76 201-3400 Copper wire stra 76 201-3400 Downspouts.stee 76 201-5400 Downspouts.stee 76 201-5700 Downspouts.stee 76 201-6600 Galvanized steel 76 201-7500 Downspouts.stee 76 201-7600 Downspouts.stee 76 202-0400 Drip edge.alumin 76 202 DRIP EDGE: 76 203 ELBOW: 76 203 ELBOW: 76 203-0400 Drip edge.steel.g 76 203 ELBOW: 76 203-0400 Drip edge.steel.g 76 203 ELBOW: 76 204-0400 Flashing aluminum, 76 204 FLASHING: 76 204-1600 Flashing shorminum 76 204-1600 Flashing copper 76 204-2500 Flashing copper 76 204-2500 Flashing copper 76 204-8400 Flashing shower g 76 204-8500 Flashing shower g 76 204-8500 Flashing shower g 76 204-8500 Flashing stainless 76 205 GUTTERS:	outs,copper,round,454 gram,100 mm diameter (4")	+			9		8 35.000	2/18/2007	37.500	0.5
16 201-2700 Copper wire stra 16 201-3400 Copper wire stra 16 201-3400 Downspouts, stee 16 201-5400 Downspouts, stee 16 201-5700 Downspouts, stee 16 201-6600 Galvanized steel 16 201-7500 Downspouts, stee 16 201-7500 Downspouts, stee 16 201-7600 Downspouts, stee 16 201-7600 Downspouts, stee 16 201-7600 Downspouts, stee 16 201-7800 Downspouts, stee 16 201-800 Downspouts, stee 16 202-0400 Drip edge, alumin 16 202-0400 Drip edge, steel, g 16 203-0900 Elbow copper, 45 16 203-0900 Elbow copper, 45 16 203-1300 Elbow copper, 45 16 203-1300 Elbow copper, 45 16 203-1400 Elbow copper, 45 16 204-1500 Flashing aluminum 16 204-1600 Flashing copper, 6 16 204-1600 Flashing copper, 6 16 204-1600 Flashing shower g 16 204-8000 Flashing steel 16 205 GUTTERS:		++	-		9		8 30.000		32.500	0.
6 201-3400 Copper wire stra 6 201-3400 Downspouts, stee 6 201-5400 Downspouts, stee 6 201-5700 Downspouts, stee 6 201-6600 Galvanized steel 6 201-7500 Downspouts, stee 6 201-7600 Downspouts, stee 6 201-7600 Downspouts, stee 6 201-7800 Downspouts, stee 6 201-8100 Downspouts, stee 6 201-8200 Downspouts, stee 6 201-8200 Downspouts, stee 6 201-8200 Downspouts, viny 76 202 DRIP EDGE: 6 202-0300 Drip edge, steel, g 76 203 ELBOW: 6 203-0010 Elbow aluminum, 6 203-0010 Elbow copper, 45 6 203-1300 Elbow copper, 45 6 203-1300 Elbow copper, 45 6 203-1300 Elbow copper, 45 6 203-1400 Flashing aluminum 76 204 FLASHING: 6 204-010 Flashing copper, 6 204-2500 Flashing copper, 6 204-2500 Flashing copper, 6 204-5000 Flashing shower g 6 204-6200 Flashing shower g 7 204-8500 Flashing stainless 7 204-8900 Flashing stainless 7 204-8900 Flashing stainless 7 205 GUTTERS:	outs,copper,round, 454 gram, 127 mm diameter (5")	+			9		00.000			-
26 201-4900 Downspouts, stee 26 201-5700 Downspouts, stee 26 201-5700 Downspouts, stee 26 201-5700 Galvanized steel 26 201-7500 Downspouts, stee 26 201-7600 Downspouts, stee 26 201-7600 Downspouts, stee 26 201-7800 Downspouts, stee 26 201-8100 Downspouts, stee 26 201-8200 Downspouts, stee 26 201-8200 Downspouts, viny 26 202 DRIP EDGE: 26 202-0400 Drip edge, alumin 26 203-0400 Drip edge, steel, g 276 203 ELBOW: 276 203 ELBOW: 276 204 Elbow aluminum, 276 204 Elbow copper, 45 26 203-1300 Elbow copper, 45 26 203-1300 Elbow vinyl, 64 m 26 203-1400 Flashing aluminum 26 204-0010 Flashing aluminum 26 204-1600 Flashing copper, 276 204 FLASHING: 276 204 Flashing copper, 276 204 Flashing copper, 276 204 Flashing copper, 276 204 Flashing staining, 276 204 Flashing staining, 277 278 Flashing polyvinyl 278 279 Flashing staining, 279 279 279 279 279 279 279 279 279 279	wire strainer, rectangular 76x100 mm or round 100 mm.	EA			-		1,10,000	127.000	118.500	0.0
6 201-5400 Downspouts, stee 6 201-5700 Downspouts, stee 6 201-6600 Galvanized steel 6 201-7600 Downspouts, stee 6 201-7600 Downspouts, stee 6 201-7800 Downspouts, stee 6 201-7800 Downspouts, stee 6 201-8100 Downspouts, stee 6 201-8200 Downspouts, stee 6 201-8200 Downspouts, viny 76 202 DRIP EDGE: 6 202-0300 Drip edge, alumin 6 202-0400 Drip edge, steel, g 76 203 ELBOW: 6 203-0010 Elbow aluminum, 6 203-0600 Elbow copper, 45 6 203-0900 Elbow vinyl, 64 m 6 203-1300 Elbow Vinyl, 64 m 6 203-1400 Elbow Tee, Y Jun 76 204 FLASHING: 6 204-0010 Flashing aluminum 6 204-1600 Flashing copper, 6 204-2500 Flashing copper, 6 204-2500 Flashing tabric, as 6 204-6200 Flashing ipolyvinyl 6 204-8500 Flashing polyvinyl 6 204-8500 Flashing shower p 76 204-8500 Flashing steinless 6 204-8900 Flashing steinless 6 204-8900 Flashing steinless 76 205 GUTTERS:	ere strainer,round 127mm	,	0.106 Labour En		9		110.000	127.000	118.500	0.0
6 201-5700 Downspouts, stee 6 201-6600 Galvanized steel 6 201-7500 Downspouts, stee 6 201-7500 Downspouts, stee 6 201-7600 Downspouts, stee 6 201-7600 Downspouts, stail 6 201-8100 Downspouts, stail 6 201-8200 Downspouts, viny 76 202 DRIP EDGE: 6 202-0300 Drip edge, alumin 6 202-0400 Drip edge, steel, g ELBOW: 6 203-0010 Elbow aluminum, 6 203-0600 Elbow copper, 45 6 203-1300 Elbow copper, 45 6 203-1300 Elbow copper, 45 6 203-1400 Elbow Tee, Y Jun 76 204 FLASHING: 6 204-0010 Flashing aluminum 6 204-1600 Flashing copper, 6 204-2500 Flashing copper, 6 204-2500 Flashing staining shower g or 3 pty copper a 204-8500 Flashing stainiess 6 205 GUTTERS:	outs,steel,galvanized,round,corrugated,100 mm diam., 28 ga.	LM	0.125 Labour Fo 1.000 Sheet Met 1.000 Helper 1.000 Tools Set		17	ü	35,000	40.000	37.500	0.
16 201-5700 Downspouts,steet	outs,steel,galvanized,round,corrugated,150 mm diam., 28 ga.		1.000 1000 001		17		25.000	29.000	27.000	0.3
16 201-6600 Galvanized steel 16 201-7500 Galvanized steel 16 201-7500 Downspouts, steel 16 201-7600 Downspouts, steel 16 201-7600 Downspouts, steel 16 201-7600 Downspouts, stail 16 201-8100 Downspouts, stail 16 201-8200 Downspouts, viny 16 202 DRIP EDGE: 16 202-0300 Drip edge, alumin 16 202-0400 Drip edge, steel, g 16 203-0500 Elbow aluminum, 16 203-0500 Elbow copper, 45 16 203-1300 Elbow copper, 45 16 203-1400 Elbow Tee, Y-Jun 16 204-1600 Flashing aluminum 16 204-1600 Flashing copper, 16 204-1600 Flashing copper, 16 204-1600 Flashing shower 16 204-8500 Flashing polyviny 16 204-8500 Flashing shower 16 204-8500 Flashing stainless 17 205 GUTTERS: 17 205 GUTTERS 17 206 Flashing stainless 17 206 GUTTERS 18 207 GUTTERS 20	outs,steel,galvanized, rectangular, corrugated or plain,28 ga., 76mm x 100 mm	+			17		35.000	40.000	37.500	0.2
6 201-7300 Galvanized steel 6 201-7500 Downspouts, stee 6 201-7600 Downspouts, stail 6 201-8100 Downspouts, stail 6 201-8200 Downspouts, stail 6 201-8200 Downspouts, viny 76 202 DRIP EDGE: 6 202-0300 Drip edge, alumin 6 202-0400 Drip edge, steel, g 76 203 ELBOW: 6 203-0010 Elbow aluminum, 6 203-0600 Elbow copper, 45 6 203-1300 Elbow vinyl, 64 m 6 203-1400 Elbow Tee, Y Jun 76 204 FLASHING: 6 204-1600 Flashing aluminum, 6 204-1600 Flashing copper, 6 204-2500 Flashing copper, 6 204-2500 Flashing tabric, as 5 204-8000 Flashing polyvinyl 5 204-8500 Flashing stainless 6 204-8900 Flashing stainless 6 205 GUTTERS:	ed steel wire strainer, rectangular 76 x 100 mm or round 100 mm	₩ EA			17			127.000	118.500	0.0
6 201-7500 Downspouts, stee 6 201-7600 Downspouts, stee 6 201-7600 Downspouts, stee 6 201-8100 Downspouts, stai 6 201-8200 Downspouts, viny 76 202 DRIP EDGE: 6 202-0300 Drip edge, alumin 6 202-0400 Drip edge, steel,g 76 203 ELBOW: 6 203-0010 Elbow aluminum, 6 203-0600 Elbow copper, 45 6 203-0900 Elbow copper, 45 6 203-1400 Elbow Tee, Y Jun 76 204 FLASHING: 6 204-0010 Flashing aluminum 6 204-1600 Flashing copper, 6 204-2500 Flashing copper, 6 204-2500 Flashing tabric, as 6 204-6200 Flashing lead-coa 6 204-7300 Flashing polyvinyl 6 204-8500 Flashing stainless 6 204-8900 Flashing stainless 6 204-8900 Flashing stainless 6 205 GUTTERS:		-			17		to expure	104,000	97.000	0.0
6 201-7600 Downspouts, stee 6 201-7800 Downspouts, stail 6 201-8100 Downspouts, stail 6 201-8200 Downspouts, stail 6 201-8200 Drip edge.alumin 6 202-0300 Drip edge.alumin 6 202-0400 Drip edge.steel.g 76 203 ELBOW: 6 203-0600 Elbow copper, 45 6 203-0600 Elbow copper, 45 6 203-1300 Elbow copper, 45 6 203-1300 Elbow ree, Y Jun 76 204 FLASHING: 6 204-0010 Flashing aluminum 6 204-0010 Flashing copper, 6 204-2500 Flashing copper, 6 204-4300 Flashing fabric, as 5 204-6200 Flashing lead-coa 5 204-8500 Flashing polyvinyl 5 204-8500 Flashing shower or 3 ply copper a 5 204-8500 Flashing stainless 6 204-8900 Flashing stainless		-			_	_	1			
6 201-7800 Downspouts, stail 6 201-8100 Downspouts, stail 6 201-8200 Downspouts, viny 76 202 DRIP EDGE: 6 202-0300 Drip edge, alumin 6 202-0400 Drip edge, steel, g 76 203 ELBOW: 6 203-0800 Elbow copper, 45 6 203-0800 Elbow copper, 45 6 203-1300 Elbow copper, 45 6 203-1300 Elbow ree, y Jun 76 204 FLASHING: 6 204-0010 Flashing aluminum 6 204-1600 Flashing copper, 6 204-2500 Flashing copper, 6 204-4300 Flashing fabric, as 6 204-6200 Flashing polyvinyl 5 204-8100 Flashing polyvinyl 5 204-8500 Flashing shower g 7 3 ply copper a 5 204-8500 Flashing stainless 7 205 GUTTERS:	outs,steel pipe,black,extra heavy,100 mm diameter	LM			17		-	5.000	4.750	1.7
6 201-8100 Downspouts, stail 6 201-8200 Downspouts, viny 76 202 DRIP EDGE: 6 202-0300 Drip edge, alumin 6 202-0400 Drip edge, steel, g 76 203 ELBOW: 6 203-0500 Elbow copper, 45 6 203-0500 Elbow copper, 45 6 203-1300 Elbow copper, 45 6 203-1300 Elbow re, y Jun 76 204 FLASHING: 6 204-010 Flashing aluminum 6 204-1600 Flashing copper, 6 204-2500 Flashing fabric, as 6 204-6200 Flashing lead-coa 6 204-8500 Flashing polyvinyl 6 204-8500 Flashing shower g 7 3 ply copper a 7 3 ply copper a	outs,steel pipe,black,extra heavy,150 mm diameter	1			.17		Nonesco.	5.000	4.500	2.0
6 201-8200 Downspouts, virily 76 202 DRIP EDGE: 6 202-0300 Drip edge, alumin 6 202-0400 Drip edge, steel, g 76 203 ELBOW: 6 203-0800 Elbow copper, 45 6 203-0800 Elbow copper, 45 6 203-1300 Elbow copper, 45 6 203-1300 Elbow copper, 45 6 203-1400 Elbow Tee, Y Juril 76 204 FLASHING: 6 204-0010 Flashing aluminum 6 204-1600 Flashing copper, 6 204-2500 Flashing copper, 6 204-5000 Flashing fabric, as 6 204-8500 Flashing polyvinyl 5 204-8100 Flashing rubber, b 5 204-8500 Flashing shower p 7 3 ply copper a 5 204-8500 Flashing stainless 76 205 GUTTERS:	outs, stainless steel tubing, schedule 5, 50 mm x 76 mm or 76 mm diam.	1			17	- 1	40.000	46.000	43.000	0.2
76 202 DRIP EDGE: 16 202-0300 Drip edge,alumin 16 202-0400 Drip edge,steel,g 76 203 ELBOW: 16 203-0800 Elbow copper, 45 16 203-0800 Elbow copper, 45 16 203-1300 Elbow copper, 45 16 203-1400 Elbow ree, y Jun 176 204 FLASHING: 16 204-010 Flashing aluminum 16 204-1600 Flashing copper, 16 204-2500 Flashing copper, 16 204-300 Flashing lead-coa 16 204-8100 Flashing polyvinyl 17 204-8100 Flashing shower or 3 ply copper a 17 204-8500 Flashing stainless 17 205 GUTTERS:	uts, stainless steel tubing, schedule 5, 100 mm x 127 mm or 127 mm diameter				17		30.000	35.000	32.500	0.2
6 202-0300 Drip edge, alumin 6 202-0400 Drip edge, steel, g 76 203 ELBOW: 6 203-0010 Elbow copper, 45 6 203-0900 Elbow copper, 45 6 203-1300 Elbow copper, 45 6 203-1300 Elbow vinyl, 64 m 6 203-1400 Elbow Tee, Y Jun 76 204 FLASHING: 6 204-0010 Flashing aluminum 6 204-1600 Flashing copper, 6 204-2500 Flashing copper, 6 204-5000 Flashing fabric, as 6 204-6200 Flashing iead-coa 6 204-8500 Flashing rubber, b 5 204-8500 Flashing shower p or 3 ply copper a 5 204-8500 Flashing stainless 76 205 GUTTERS:	uts, vinyl, rectangular, 50 mm x 76 mm or round 64 mm	+			17	3	50.000	58.000	54.000	0.1
6 203-0400 Drip edge, steel, g 76 203 ELBOW: 6 203-0600 Elbow copper, 45 6 203-0900 Elbow copper, 45 6 203-1300 Elbow copper, 45 6 203-1300 Elbow copper, 45 6 203-1400 Elbow ree, Y Jun 76 204 FLASHING: 6 204-0010 Flashing aluminum 6 204-1600 Flashing copper, 6 204-2500 Flashing copper, 6 204-2500 Flashing fabric, as 5 204-6200 Flashing lead-coa 5 204-8500 Flashing polyvinyl 6 204-8500 Flashing shower g 6 204-8500 Flashing stainless 6 204-8500 Flashing stainless 6 204-8500 Flashing stainless 6 204-8500 GUTTERS:	DGE:									
76 203 ELBOW: 5 203-0010 Elbow copper, 45 6 203-0600 Elbow copper, 45 6 203-0900 Elbow copper, 45 6 203-1300 Elbow copper, 45 6 203-1400 Elbow ree, Y Jun 76 204 FLASHING: 6 204-0010 Flashing aluminur 6 204-1600 Flashing copper, 6 204-2500 Flashing copper, 6 204-5000 Flashing fabric, as 6 204-6200 Flashing lead-coa 6 204-8500 Flashing rubber, b 6 204-8500 Flashing shower or 3 ply copper a 6 204-8500 Flashing stainless 6 205 GUTTERS:	e,aluminum, 0.40 mm thick, 710 mm wide	LM	0.125 Labour Foreman 1.000 Carpenter 1.000 Helper 1.000 Tools Sat		17	i	25.000	29.000	27.000	0.3
6 203-0600 Elbow aluminum, 6 203-0600 Elbow copper, 45 6 203-0900 Elbow copper, 45 6 203-1300 Elbow copper, 45 6 203-1400 Elbow Tee, Y Jun 76 204 FLASHING: 6 204-0010 Flashing aluminum 6 204-1600 Flashing copper, 6 204-2500 Flashing copper, 6 204-5000 Flashing fabric, as 6 204-6200 Flashing polyvinyl 6 204-8100 Flashing polyvinyl 6 204-8100 Flashing polyvinyl 6 204-8500 Flashing shower g or 3 ply copper a 6 204-8900 Flashing stainless 76 205 GUTTERS:	steel,galvanized,upto 200 mm wide			4-1	17		85.000	98.000	91.500	0.0
6 203-0600 Elbow copper, 45 6 203-0800 Elbow copper, 45 6 203-1300 Elbow vinyl, 64 m 6 203-1400 Elbow Tee, Y Jun 76 204 FLASHING: 6 204-010 Flashing aluminur 6 204-1600 Flashing copper, 6 204-2500 Flashing copper, 6 204-300 Flashing fabric, as 6 204-6200 Flashing lead-coa 6 204-6200 Flashing polyvinyl 5 204-8100 Flashing rubber, b 5 204-8500 Flashing shower p 7 3 ply copper a 5 204-8900 Flashing stainless 76 205 GUTTERS:	l;		1							
6 203-0900 Elbow copper, 45 6 203-1300 Elbow vinyl, 64 m 6 203-1400 Elbow Tee, Y Jun 76 204 FLASHING: 6 204-010 Flashing aluminur 6 204-1600 Flashing copper, 6 204-2500 Flashing copper, 6 204-2500 Flashing tabric, as 6 204-6200 Flashing lead-coa 6 204-6200 Flashing polyvinyl 6 204-8100 Flashing rubber, b 6 204-8500 Flashing shower or 3 ply copper a 6 204-8900 Flashing stainless 76 205 GUTTERS:	minum, 50 mm x 76 mm	EA	0.125 Labour Foreman 1.000 Sheel Metal Worker 1.000 Heiper		17		80.000	92.000	86.000	0.1
76 203-1300 Elbow copper, 45 76 203-1300 Elbow vinyl, 64 m 76 203-1400 Elbow Tee, Y Jun 76 204 FLASHING: 76 204-0010 Flashing aluminur 76 204-1600 Flashing copper, 76 204-2500 Flashing copper, 76 204-300 Flashing fabric, as 76 204-6200 Flashing lead-coa 76 204-8100 Flashing rubber, b 76 204-8500 Flashing rubber, b 76 204-8500 Flashing shower or 3 pty copper a 76 204-8500 Flashing stainless 76 205 GUTTERS:	oper 454 gram round 76 mm diameter	\vdash	1.000 Tools Set		17		80.000	92.000	86.000	0.1
6 203-1300 Elbow vinyl, 64 m 6 203-1400 Elbow Tee, Y Jun 76 204 FLASHING: 6 204-010 Flashing aluminur 6 204-1600 Flashing copper, 6 204-2500 Flashing copper, 6 204-300 Flashing fabric, as 6 204-6200 Flashing lead-coa 6 204-6200 Flashing polyvinyl 6 204-8100 Flashing rubber, b 6 204-8500 Flashing shower p 7 3 ply copper a 6 204-8500 Flashing stainless 76 205 GUTTERS:		++-			17		II INVESTIGATION	92.000	86.000	0.1
6 203-1400 Elbow Tee, Y Jun 76 204 FLASHING: 6 204-0010 Flashing aluminur 6 204-1600 Flashing copper, 6 204-2500 Flashing copper, 6 204-4300 Flashing fabric, as 6 204-6200 Flashing lead-coa 6 204-6200 Flashing lead-coa 6 204-8200 Flashing rubber, 6 204-8500 Flashing shower por 3 pty copper a 6 204-8900 Flashing stainless 6 205 GUTTERS:		-			17		4.50.0000	92.000	86.000	0.1
76 204 FLASHING: 6 204-0010 Flashing aluminur 6 204-1600 Flashing copper, 6 204-2500 Flashing copper, 6 204-5000 Flashing fabric, as 6 204-6200 Flashing lead-coa 6 204-7300 Flashing polyvinyl 6 204-8100 Flashing rubber, 6 204-8500 Flashing shower or 3 ply copper a 6 204-8500 Flashing stainless 6 204-8500 Flashing stainless 6 205 GUTTERS:	Company of the Company of Company	-			-		a cobar	1400000000	2575.022.03	1927
6 204-0010 Flashing aluminum 6 204-1600 Flashing copper, 6 204-2500 Flashing copper, 6 204-4300 Flashing fabric, as 5 204-5000 Flashing fabric, as 5 204-6200 Flashing lead-coa 5 204-7300 Flashing polyvinyl 6 204-8100 Flashing rubber, b 6 204-8500 Flashing shower por 3 ply copper a 5 204-8500 Flashing stainless 6 205 GUTTERS:					17		60.000	69.000	64.500	0.1
6 204-1600 Flashing copper, 6 204-2500 Flashing copper, 6 204-4300 Flashing tabric, as 6 204-5000 Flashing fabric, as 6 204-6200 Flashing lead-coa 6 204-7300 Flashing polyvinyl 6 204-8100 Flashing rubber, b 6 204-8500 Flashing shower p 7 3 ply copper a 6 204-8900 Flashing stainless 7 204-8900 Flashing stainless	NG:		n 125 Labour For	economic III	-					-
6 204-2500 Flashing copper- 6 204-4300 Flashing copper- 6 204-5000 Flashing fabric, as 6 204-6200 Flashing lead-coa 6 204-7300 Flashing polyvinyl 6 204-8100 Flashing rubber, b 6 204-8500 Flashing shower p or 3 ply copper a 6 204-8900 Flashing stainless 76 205 GUTTERS:	aluminum, mill finish, 0.30 mm thick to 1 mm thick	SQM	1,000 Sheet Meta 1,000 Tools Set	The second second	9		2000000	12.000	11.000	0.8
6 204-4300 Fiashing copper-6 6 204-5000 Falshing fabric, as 6 204-6200 Fiashing lead-coa 6 204-7300 Flashing polyvinyl 6 204-8100 Flashing rubber, b 6 204-8500 Flashing shower or 3 pty copper a 6 204-8900 Flashing stainless 6 205 GUTTERS:	opper, 454 gram, sheets				9			9.000	8.500	1.0
6 204-5000 Falshing fabric, as 5 204-6200 Flashing lead-coa 5 204-7300 Flashing polyvinyl 5 204-8100 Flashing rubber, b 5 204-8500 Flashing shower or 3 ply copper a 5 204-8900 Flashing stainless 6 205 GUTTERS:	copper, 907 gram, sheets				9		7.000	8.000	7.500	1.1
5 204-6200 Flashing lead-coa 5 204-7300 Flashing polyvinyl 5 204-8100 Flashing rubber.b 5 204-8500 Flashing shower or 3 ply copper a 5 204-8900 Flashing stainless 6 205 GUTTERS:	copper-clad stainless steel, 0.38 mm thick	4	2		9	3	8.000	9.000	8.500	1.0
5 204-8100 Flashing polyvinyl 5 204-8100 Flashing rubber,b 5 204-8500 Flashing shower por 3 ply copper a 5 204-8900 Flashing stainless 76 205 GUTTERS:	abric,asphalt-saturated cotton, utility grade		0.125 Labour For 1.000 Rooter,Cor 1.000 Helper 1.000 Tools Set		17		20.000	23.000	21.500	0.4
5 204-8100 Flashing rubber.b 5 204-8500 Flashing shower to 3 ply copper a 5 204-8900 Flashing stainless 76 205 GUTTERS:	ead-coated copper,fabric-backed, 142 gram.		0.125 Labour For 1.000 Sheet Meta 1.000 Helper 1.000 Tools Set		17	ē	20.000	23.000	21.500	0.4
Flashing shower por 3 ply copper a 5 204-8900 Flashing stainless 76 205 GUTTERS:	polyvinyl chloride,black 0.25 mm thick to 1 mm thick		0.125 Labour Foreman 1.000 Roofer Composition 1.000 Helper		17	8	18.000	21.000	19.500	0.4
Flashing shower por 3 ply copper a 5 204-8900 Flashing stainless GUTTERS:	ubber, butyl, 0.8 mm thick to 2 mm thick		1.000 Tools Set		17	8	18.000	21.000	19.500	0.4
6 204-8900 Flashing stainless G 205 GUTTERS:	shower pan,bituminous membrane 198 gram, opper and fabric, 85 gram		0.125 Labour Foreman 1.000 Sheet Metal Worker		9	8	0184800	10.000	9.500	0.8
6 205 GUTTERS:	stainless steel sheets, 32 ga to 24 ga.		1.000 Tools Set		9	8	10.000	12.000	11.000	0.8
					1					-
	uminum, 127 mm box, 0.7 mm thick	LM	0 125 Labour Forethan 1.000 Sheet Metal Worker 1.000 Helper		17	8	25.000	29.000	27.000	0.3
205-0700 Gutters copper h	opper, half round, 454 gram, 150 mm wide		1.000 Tools Set		17	6	25.000	29.000	27.000	0.3
					17	8	1000000000	29.000	27.000	0.3
	ad coated copper, half round stock, 150 mm wide				-				5,000	70.00
PRODUCE OF THE PRODUC	ainless steel,half round or box, 28 ga.,127 mm wide eel,galv.,half round or box,stock 127 mm wide				17	8	100000000000000000000000000000000000000	29.000	27.000	0.3

CSI	N 07:THERMAL & MOISTURE PROTECTION	FPSW	CREW	CREW	CREW	8 2		D. O.	AVRG.
CODE	ITEM DESCRIPTION	UNIT	STRUCTURE	HOURS	1000	D. O. MIN.	D. O. MAX.	AVRG.	E. H.
076 205-3 000	Gutters vinyl, 127 mm wide	LW	0.125 Labour Foreman 1.000 Carpenter 1.000 Hesper 1.000 Tools Set	17	8	22.000	25.000	23.500	0.36
076 206	GUTTER GUARD:		1.060 (00ls Set			/			
076 206-0010	Gutter guard 150 mm wide strip, aluminum or vinyl mesh	LM	0.125 Labour Foremen 1.000 Carpenter 1.000 Helper	117	8	110.000	127.000	118.500	0.07
076 210	REGLET:		1,000 Tooks Set	1					
076 210-0010	Reglet aluminum,copper,galvanized or stainless steel in concrete parapet	LM	0.125 Labour Foremen 1.000 Carpenter 1.000 Helper 1.000 Tools Sel	.17	В	55.000	63.000	59.000	0:14
076 217	SOFFIT:								
076 217-0010	Sofit aluminum, 0.5 mm thick	SOM	D.125 Labour Foreman 1,000 Carpenter 1,000 Helper 1,000 Tools Set	17	8	15.000	17.000	16.000	0.53
076 217-0100	Sofit baked enamel on steel,16 or 18 gauge			17	£	7.500	9.000	8.250	1.06
076 217-3300	Sofit polyvinyl chloride, solid or perforated	1	.	17	8	18.000	21.000	19.500	0.444
077	ROOF SPECIALTIES & ACCESSORIES					2. 1994		Torrest.	9 J 10
077 100	PREFAB ROOF SPECIALTIES								
077 103	EXPANSION JOINT:								
077 103-0010	Expansion joint, butyle 1.6 mm thick, 735 mm wide	LM	0.125 Labour Foreman 1.000 Roofer 1.000 Halper 1.000 Tools Set	17	Б	40.000	46.000	43.000	0.200
077 103-0400	Expansion joint, butyle on neoprene center with foam insulation, metal flanges, for openings upto 200 mm	LM	0.125 Labour Foreman 1.000 Roofer 1.000 Helper	17	8	40.000	46.000	43.000	0.200
077 103-1900	Expansion joint,neoprene,double seal type,with thick center, 115 mm wide		LIAMORERE	17	8	30,000	35.000	32.500	0.267
077 103-1950	Expansion joint, polyethylene bellows, with galvanized steel flanges			17	8	25.000	29.000	27.000	0.320
077 103-2000	Roof expansion joint, with extruded aluminum cover, 50 mm		0.125 Labour Foreman 1.000 Sheet Metal Worker 1.000 Helper 1.000 Tools Set	17	8	30 000	35,000	32.500	0.267
077 103-2100	Roof expansion joint, plastic curbs, foam center		0.125 Labour Foreman 1.000 Rooter 1.000 Helper 1.000 Tools Set	17		20.000	23.000	21.500	0.400
077 103-2500	Roof to wall expansion joint with extruded aluminum cover		0.125 Labour Foremen 1.000 Sheet Metal Worker 1.000 Helper 1.000 Tools Set	17	В	25.000	29.000	27.000	0.320
077 103-2800	Wall expansion joint, closed cell foam on PVC cover 300 mm wide		0.125 Labour Foreman 1.000 Roofer 1.000 Helper 1.000 Tools Set	17	8	25.000	29.000	27.000	0.320
077 104	FASCIA:								
077 104-0300	Fascia aluminum or steel galvanized, no furring average	SQM	0.125 Labour Foreman 1.000 Sheet Metal Worker	9	8	9.000	10.000	9.500	0.889
077 105	GRAVEL STOP:		1.000 Tools Set	+					
	Gravel stop aluminum, 150 mm face height, 1 mm thick	LM	0.125 Labour Foreman 1.000 Sheet Metal Worker 1.000 Tools Set	9	В	30.000	35.000	32.500	0.267
077 105-1350	Gravel stop,galv.steel, 24 ga.,upto 150 mm high with continuous cleat			9	. 8	30.000	35.000	32.500	0.267
077 105-1600	Gravel stop, polyvinyl chloride, 230 mm face height			9	ā	30,000	35.000	32.500	0.267
077 105-1900	Gravel stop, stainless steel, 24 ga or 20 ga, 300 mm face height	1		9	8	20.000	23.000	21.500	0.400
077 200	ROOF ACCESSORIES:								
077 204	CEILING HATCHES:	See Aller - See Aller							-
077 204-0010	Celling hatches, 760 mm x 760 mm, single leaf, steel frame & cover	EA	0.125 Labour Foreman 2.000 Sheef Metal Workers 2.000 Building Laborers 2.000 Power Tools	53	16	8.000	9.000	8.500	2.000
077 205	ROOF DRAINS See di	vision 1	51-125						
077 206	ROOF HATCHES:								
77 206-0500	Roof hatches with 25 mm fiberglass insul., 760 mm x 915 mm, aluminum, or galvanized steel curb and cover	EA	0.125 Labour Foremen 2.000 Sheet Matal Workers 3.000 Building Laborers 2.000 Power Tools	41	16	8.000	9.000	8,500	2.000
77 206-1200	Roof hatches with 25 mm fiberglass insul., 760 mm x 1370 mm, & with aluminum or galvanized steel curb and cover			41	16	5.000	6,000	5.500	3 207
77 206-1200	Roof hatches, 760 mm x 2440 mm, aluminum or galvanized steel curb and cover	1		41	16	5.000	6.000	5.660	3 200
077 208	SMOKE VENT:								
77 208-0100	Smoke venet, insulated, 1220 mm x 1220 mm, aluminum or galvanized steel cover & frame	EA	0.125 Labour Foreman 2.000 Sheet Metal Workers 3.000 Building Laborers 2.000 Power Tools	41	16	10.000	12.6.:0	11,000	1.600
77 208-0300	Smoke venet, insulated, 1220 mm x 2400 mm, aluminum or galvanized steel cover & frame		•	41	16	7.000	e than	7 500	2 28F
077 210	ROOF VENTS:				200700			30000	STORICS CO.
77 210-0010	Roof vents mushroom for built-up roofs, aluminum or PVC, 150 mm high	EA	0.125 Labour Foreman 1,000 Roofer, Composition 1,000 Tools Set	9	8	20.000	23.000	21,500	0.400

001	N 07:THERMAL & MOISTURE PROTECTION				005111	605				0402444
CODE	ITEM DESCRIPTION	UNIT	INIT CREW STRUCTURE		HOURS	EQUIP	ID O MIN	D. O. MAX.	D. O. AVRG.	AVRG E. H.
078	SKYLIGHTS									
78 100	PLASTIC SKYLIGHTS									
078 101	SKYLIGHT:									
78 101-0300	Skylight, plastic roof domes, curb mounted, with 100 mm insulated curb & "L" frames, nominal size under 1.00 m2, double	SOM	0.125 Labour Fo 2.000 Sheet Me 3.000 Building L 2.000 Power To	tal Workers aborers	41	3	5.000	6.000	5.500	3.2
78 101-0400	Skylight, plastic roof domes, curb mounted, with 100 mm insulated curb & "L* frames, nominal size 1.00 to 2 m2, double		1,550 1040 10		41	,	6.000	7.000	6.500	2.0
78 101-1200	Skylight, plastic roof domes,curb mounted,with 100 mm insulated curb & "L" frames,nominal size under 2 to 6 m2,double				41	1	18.000	21,000	19.500	0.
78 101-1900	Skylight, plastic roof domes,curb mounted,with 230 mm insulated curb & "L" frames,nominal size under 2 to 6 m2,double				41	5	18.000	21.000	19.500	0.
78 101-2150	Skylight, ventilating isulated plexiglass dome with insulated	EA			41	1	10.000	12.000	11,000	1,
Zavrican Center	Curb mounting size 1320 mm x 1320 mm	-	-	-	-	-	1/8823/03	37833338		
78 101-2170	curb mounting size 915 mm x 1320 mm				41	31	-	9.000	8.500	2.
78 101-2400	Skylight, sandwish panel, fiberglass for walls 40 mm thick upto 25 SQM	SOM	C 405 Labour Fo	+	41	11	16.000	18.000	17.000	1.0
78 101-2500	Skylight, sandwish panel, fiberglass for walks 40 mm thick more than 25 SQM	SQM	2.000 Sheet Met 3.000 Building L 2.000 Power To	al Workers aborers	41	51	20.000	23,000	21.500	0.8
78 101-2700	Skylight, sandwish panel, fiberglass for roofs 70 mm thick upto 25 SQM	1 -	2.5001.0001.10		41	16	24.000	28.000	26.000	0.6
78 101-2800	Skylight, sandwish panel, fiberglass for roofs 70 mm thick more than 25 SQM	SQM	0.125 Labour Foreman 2.000 Sheet Metal Workers 3.000 Building Laborers 2.000 Power Tools		41	16	27.000	31.000	29.000	0.9
078 200	METAL FRAMED SKYLIGHTS	1	2000 Power 150	DIS	1	_				
78 202	SKYROOFS:				1					
		SOM	0 125 Labour Fo		1		-			
78 202-0010	Skyroots translucent panels, 70 mm thick	HORI- ZONTAL	2.000 Sheet Metal Workers 3.000 Building Laborers 2.000 Power Tools		41	16	30.000	35.000	32.500	0.
78 202-0300	Skyroots continuous vaulted, semi-circular, to 6 m wide, double glazed	*			41	16	10.000	12.000	11.000	1.0
78 202-0900	Skyroofs continuous vaulted,motorized opening type,single glazed,full opening	SOM HORI- ZONTAL	0.125 Labour Foreman 2.000 Sheet Metal Workers 1.000 Electrician 3.000 Building Laborers 2.000 Power Tools		49	16	8.000	9.000	8.500	2.0
78 202-0300	Skyroofs pyramid type units, self-supporting, to 9 m clear opening, square or circular, single glazed average		0.125 Labour Foreman 2.000 Sheet Metal Workers 3.000 Building Laborers 2.000 Power Tools		41	16	16.000	18.000	17.000	1.0
78 202-1500	Skyroofs grid type, 1.2 to 3 m modules, double glazed, average				41	16	12.000	14.000	13,000	1.3
78 400	GLASS BLOCK SKYLIGHTS									
78 402	PREFABRICATED:									
78 402-0010	Prefabricated glass block with metal frame average	SQM	0.125 Labour Foremen 2.000 Sheet Metal Workers 3.000 Building Laborers 2.000 Power Tools		41	16	15.000	17.000	16.000	1.0
79	JOINT SEALERS			Teste.					100	
79 100	JOINT FILLERS & GASKETS					1				
79 102	CONTROL JOINTS See division 041-508									
79 204	SEALANTS & CAULKINGS									
79 204	CAULKING AND SEALANTS:									
9 204-0030	Acoustical sealant, elastomeric, backer rod,polyethylene, 6 mm to 25 mm diameter	LM	0.125 Labour Foreman 1.000 Bricklayer 1.000 Tools Set		9	8	110.000	127.000	118.500	0.0
9 204-0600	Caulking compound, oil base, bulk, in place 6 mm x 13 mm				9	8	60,000	70.000	65.000	0.1
9 204-0800	Caulking compound, oil base, bulk, in place 20 mm x 25 mm				9	8	60.000	70.000	65.000	0.1
9 204-1400	Caulking & Sealant, butyl base, bulk in place, 13 mm x 13 mm				9	8	60.000	70.000	65.000	0.1
9 204-2300	Caulking and sealant, polysulfide compounds, in place, 6 mm x 6 mm				9	8	60.000	70.000	65.000	0.1
9 204-3000	Caulking and sealant, polysulfide compounds, in place, 25 mm x 13 mm				9	6	35.000	40,000	37.500	0.2
9 204-3200	Caulking and sealant, polyurethane, in place, 6 mm x 6 mm		21.1		9	8	40.000	46.000	43.000	0.2
9 204-3800	Caulking and sealant, polyurethane, in place, 20 mm x10 mm			Photos	9	8	30.000	35.000	32.500	. ~ 0.2
9 204-3900	Caulking and sealant, polyurethane, in place, 25 mm x 13 mm	13		1	9	6	30.000	35.000	32.500	0.2
9 204-4400	Sealant,neoprene gaskets,closed cell,adhesive, 3 mm x 10 mm		ell) Lotta		9	8	60.000	69.000	64.500	0.1
9 204-4800	Sealant,neoprene gaskets,closed cell,adhesive,19 mm x 38 mm		73 - 36		9		45.000	52.000	48.500	0.1
The second secon	Sealant, PVC tape, foam adhesive 3 mm x 13 mm				_		45.000	52.000		0.1



الهدف:

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اللنجكم بالبرقين اللنجكم بالجيودة اللنجكم بالتكلفة

- إدارة الشاريع

مرحلة ما قبل التصميم مرحلة التصميم مرحلة الإنشاء

- مراجعة التصميم - الشدسة قيمية - اشراف - درامات الشدسية

Division 8 Doors & Windows

Division 8.. Door & Windows...

Estimating Tips:

081 Metal Doors & Frames:

Most metal doors and frames look alike, but there may be significant differences among them. When estimating these items be sure to choose the line items that most closely compares to the specification or door schedule requirements regarding:

- a) type of metal
- b) metal gauge
- c) door core material
- d) fire rating
- e) finish

Most of the items covered under this division are furnished by local manufacturers or distributors and carpenters set them at job site. Usually sash & doors are provided with glazing. Contractor are advised to check this item to prevent duplication of work Curtain walls are usually let to specialized sub-contractors. Estimator shall focus on material schedules.

082 Wood & Plastic Doors:

Some doors usually in institutional buildings are veneered on all surfaces with plastic laminate. Wood and plastic doors vary considerably in price. The primary determinant is the veneer material, which is bonded under pressure.

083 Special Doors:

There are many varieties of special doors, and they are usually priced per each. Add frames, hardware or operators required for a complete installation. Tin clad fire doors, overhead, coiling doors & grilles, folding, freezer and refrigerator, air curtain garage and entrance sliding doors and others are classified as special doors.

087 Hardware:

Hardware costs add considerably to the cost of a door, usually hardware schedules set up is included in specifications rather that shown on drawings.

CSI	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVERG.	AVRG. E.H.
081	METAL DOORS & FRAMES	-				at switch	DE WES
081 100	STEEL DOORS & FRAMES						
081 103	COMMERCIAL STEEL DOORS: "Hardware not included"						
81 103-0020	Commercial Steel Door, Flush ,full panel, Hollow core, 35 mm thick, 20 ga., 610 mm x 2035 mm, hardware & frame not included	EA	0.125 Skilled Foreman 2.00 Carpenters 1.00 Helper 2.00 Power Tools	19.000	22.000	20.500	0.84
81 103-0060	Commercial Steel Door, Flush , full panel, Hollow core, 35 mm thick, 20 ga., 915 mm x 2035 mm, hardware & frame not included			16.000	18.000	17.000	1.0
91 103-0100	Commercial Steel Door, Flush , full panel, Hollow core, 35 mm thick, 20 ga., 915 mm, x 2135 mm, hardware & frame not included			16.000	18.000	17.000	1.0
81 103-0400	Commercial Stool Deer Fluck Hellow core Hell Class 20 as 215 mm + 2125			16.000	18.000	17.000	1.0
81 103-1020	Commercial Steel Door, Flush, full panel, Hollow core, 44 mm thick, 20 ga., 815 mm x 2035 mm, hardware & frame not included			17.000	20.000	18.500	0.9
31 103-1060	Commercial Steel Door, Flush, full panel, Hollow core, 44 mm thick, 20 ga., 915 mm x 2135 mm, hardware & frame not included			16.000	18.000	17.000	1.0
31 103-1080	Commercial Steel Door, Flush, full panel, Hollow core, 44 mm thick, 20 ga., 1220 mm x 2135 mm, hardware & frame not included			14.000	16.000	15.000	1.1
31 103-1100	Commercial Steel Door, Flush, full panel, Hollow core, 44 mm thick, 20 ga., 1220 mm x			12.000	14.000	13.000	1.3
81 103-1160	2440 mm, hardware & frame not included Commercial Steel Door,Flush,full panel,Hollow core,44 mm thick,18 ga.,915 mm x			15.000	17,000	16.000	1.0
81 103-1180	2135 mm,hardware & frame not included Commercial Steel Door,Flush,full panel,Hollow core,44 mm thick,18 ga.,1220 mm x			13,000	15.000	14.000	1.2
81 103-1260	2135 mm,hardware & frame not included Commercial Steel Door,Flush,Half glass,panel,hollow core,44 mm thick,20 ga., 915		-	17,000	20,000	18.500	0.9
31 103-1300	mm x 2135 mm,hardware & frame not included Commercial Steel Door,Flush,Half glass,panel,hollow core,44 mm thick,20 ga., 1220	+		12.000	14.000	13.000	1.3
31 103-1360	mm x 2440 mm,hardware & frame not included Commercial Steel Door,Flush,Half glass,panel,hollow core,44 mm thick,18 ga., 915	-				-	
	mm x 2135 mm,hardware & frame not included Commercial Steel Door, Flush, Half glass, panel, hollow core, 44 mm thick, 18 ga., 1220		 	16.000	18.000	17.000	1.0
31 103-1400	mm x 2440 mm,hardware & frame not included Commercial Steel Door,flush,insulated, 44 mm thick,full panel, 18 ga, 915mm x 2135	-		13.000	15.000	14.000	1,2
1 103-1760	mm, hardware & frame not included Commercial Steel Door, flush, insulated, 44 mm thick, full panel, 18 ga, 1220 mm x 2440			14,000	16.000	15.000	1.1
1 103-1800	mm,hardware & frame not included			12.000	14.000	13.000	1.3
1 103-1820	Commercial Steel Door,flush,insulated, 44 mm thick,half glass, 18 ga,915 mm x 2035 mm,hardware & frame not included			15.000	17.000	16.000	1.0
31 103-1900	Commercial Steel Door,flush,insulated, 44 mm thick,half glass, 18 ga,1220 mm x 2440 mm,hardware & frame not included	+		13.000	15.000	14.000	1.2
81 106	DOOR FRAMES:						
31 106-0100	Door frames,150 mm steel channels 12 kg/m, with anchors and bar stops, 915 mm x 2135 mm door, weighs 91 kg	EA	1.00 Struc. Foreman 3.00 Struc. Steel Workers 2.00 Helpers 1.00 Gas Welding Machine 2.00 Power Tools	12.000	14.000	13.000	2.0
1 106-0200	Door frames, 200 mm steel channels 17 kg/m, with anchors and bar stops, 1830 mm x 2440 mm door, weighs 136 kg			8.000	9.000	8.500	3.0
1 106-0300	Door frames, 200 steel channels 17 kg with anchors and bar stops, 2440 mm x 3660 mm door, weights 204 kg			6.000	7.000	6.500	4.0
1 106-0500	Door frames, 250 mm steel channels 22 kg/m with anchors and bar stops, 3660 mm x 3660 mm door weighs 283 kg			5.000	6.000	5.500	4.8
1 106-0600	Door frames, 310 mm steel channels 31 kg/m with anchors and bar stops, 3660 mm x			4.000	5.000	4.500	6.0
1 106-0700	3660 mm door weighs 374 kg Door frames, 310 mm steel channels 31 kg/m with anchors and bar stops, 3660 mm x			3.000	3.000	3.000	8.0
81 110	4880 mm door weighs 453 kg FIRE DOOR: "Hardware & frame not included"	_ *		-			- I CHECK
1 110-0040	Fire door steel,flush, 90 minute, full panel, 20 ga., 815 mm x 2035 mm,hardware & frame not included	EA	0.250 Skilled Foremen 2.000 Carpenters 1.000 Helper 2.000 Power Tools	17.000	20.000	18.500	0.9
1 110-0060	Fire door steel,flush, 90 minute, full panel,20 ga.,815 mm x 2035 mm,hardware & frame not included	T		16.000	18.000	17.000	1.0
1 110-00001	Fire door steel, flush, 90 minuite, full panel, 20 ga., 915 mm x 2135 mm, hardware & frame not included			16.000	18.000	17.000	1.0
110-0160	Fire door steel,flush, 90 minuite,full panel, 18 ga., 815 mm x 2135 mm,hardware &			16.000	18.000	17.000	1.0
110-0180	frame not included Fire door steel, flush, 90 minuite, full panel, 18 ga., 915 mm x 2135 mm, hardware &	1	La Till Latia	15.000	17.000	16.000	1.0
110-0200	frame not included Fire door steel, flush, 90 minuite, full panel, 18 ga., 1220 mm x 2135 mm, hardware &		The second	14.000	16.000	15.000	1.14
	frame not included Fire door steel, flush, 90 min., composite, 20 ga., 915mm x 2135 mm	-		15.000	17.000	16.000	1.0
	Fire door steel, flush, 3 hour, composite, 18 ga., 915 mm x 2135 mm	1		15.000	17.000	16.000	1.00
	Fire door steel, flush, 3 hour, composite, 18 ga., 1220 mm x 2135 mm	1		13.000	15.000	14.000	1.23
enteresses.	RESIDENTIAL STEEL DOOR:				440.55		ens c
	Residential steel door,prehung,insulated,exterior embossed,full panel 915 mm x 2135 mm, no hardware	EA	0.250 Skilled Foreman 2.000 Carpenters 1.000 Helper 2.000 Power Tools	14.000	16.000	15.000	1.1

CSI	Groups Houseland State of March 1997	S. Constant		CREW	2 2 7		D. O.	AVRG.
CODE	ITEM DESCRIPTION	UI	TIV	STRUCTURE	D. O. MIN.	D. O. MAX.	AVERG.	E.H.
81 114-0070	Residential steel door, prehung, insulated, exterior embossed, full panel 1625 mm x 2135 mm double leaf door, no hardware			.	8.000	9.000	8.500	2.00
81 114-0220	Residential steel door,prehung,insulated,exterior embossed,half glass 915 mm x 2135 mm,no hardware	ı	ĒΑ	0.250 Skilled Foreman 2.000 Carpenters 1.000 Helper 2.000 Power Tooks	15.000	17.000	16.000	1.06
81 114-2300	Residential steel door,prehung,insulated,interior,closet,bi-fold 915 mm x 2035 mm,no hardware				15.000	17.000	16.000	1.06
81 114-2420	Residential steel door, prehung, insulated, interior, closet, bi-fold 1830 mm x 2035 mm, no hardware				12.000	14.000	13.000	1.33
081 200	ALUMINUM DOORS & FRAMES:					(
081 204	ALUMINUM FRAMES:							
	Aluminum frames entrance,any finish, 1830 mm x 2135 mm opening	OPE	NING	0.125 Skilled Foreman 2.00 Skilled Workers 1.00 Helper 2.00 Power Tooks	6.000	7.000	6.500	2.66
81 200-0600	Aluminum frame entrance, any finish, 915 mm x 2135 mm opening				7.000	8.000	7.500	2.28
81 200-1500	Aluminum frames entrance,any finish,with 915mm high transoms, 1830 mm x 3050 mm opening				6.000	7.000	6.500	2.66
81 212	ALUMINUM DOORS & FRAMES:							
81 212-0020	Aluminum doore & tramae antrance narrow etile including hardware & double	ı	ĒΑ	0.125 Skilled Foreman 2.00 Skilled Workers 1.00 Helper 2.00 Power Tools	2.000	2.000	2.000	8.00
81 212-0200	Aluminum doors & trames,entrance,narrow stile,including hardware and closer,single glazed 10 mm, 1067 mm x 3050 mm opening, 915 mm high transom				2.000	2.000	2.000	8.00
81 212-0300	Aluminum doors & frames,entrance,narrow stile,including hardware and closer,double glazed 21 mm, 1830 mm x 2135 mm opening		200		1.000	1.000	1.000	16.00
81 212-0400	Aluminum doors & frames,entrance,namow stile,including hardware and closer,single glazed 12 mm, 1830 mm x 3050 mm opening, 915 mm high transom				1.000	1.000	1.000	16.00
81 212-1100	Aluminum doors & frames entrance narrow stile including hardware closer and double				2.000	2.000	2.000	8.0
81 212-1200	Aluminum doors & frames,entrance,narrow stile,including hardware, closer,and double glazed 25 mm, 1830 mm x 2135 mm opening				2.000	2.000	2.000	8.0
81 212-1400	Aluminum doors & frames, entrance, narrow stile, including hardware, closer, and double				1.000	1.500	1.250	16.00
(2) (10 m) (10 m) (10 m)	Aluminum doors & frames,entrance,narrow stile,including hardware, closer,and double glazed 25 mm, 1830 mm x 3050 mm opening. 915 mm high transom			•	1.000	1.500	1.250	16.00
082	Aluminum doors & frames, entrance, narrow stile, including hardware, closer, and double	ų,			1.000	1.500	1.250	16.00
082 082 0 50	Aluminum doors & frames,entrance,narrow stile,including hardware, closer,and double glazed 25 mm, 1830 mm x 3050 mm opening. 915 mm high transom WOOD & PLASTIC DOORS WOOD & PLASTIC DOORS				1.000	1.500	1.250	16.00
082 082 050 082 054	Aluminum doors & frames,entrance,narrow stile,including hardware, closer,and double glazed 25 mm, 1830 mm x 3050 mm opening 915 mm high transom WOOD & PLASTIC DOORS		, M	0 125 Skilled Foreman 2.00 Carpenters 1.00 Helpier 2.00 Power Tools	1.000		1.250	
082 082 050 082 054 082 504-0440	Aluminum doors & frames,entrance,narrow stile,including hardware, closer,and double glazed 25 mm, 1830 mm x 3050 mm opening. 915 mm high transom. WOOD & PLASTIC DOORS WOOD & PLASTIC DOORS WOOD FRAMES:		M	2.00 Carpenters 1.00 Helper				0.14
082 050 082 054 082 054 082 504-0440	Aluminum doors & frames,entrance,narrow stile,including hardware, closer,and double glazed 25 mm, 1830 mm x 3050 mm opening, 915 mm high transom WOOD & PLASTIC DOORS WOOD & PLASTIC DOORS WOOD FRAMES: Exterior frame,including exterior trim,pine, 30 mm upto 167 mm deep Exterior frame,including exterior frim,oak or walnut, 30 mm upto 167 mm deep		м	2.00 Carpenters 1.00 Helper	110.000	127.000	118.500	0.14
082 050 082 054 082 504-0440 082 504-0600 082 504-1000	Aluminum doors & frames,entrance,narrow stile,including hardware, closer,and double glazed 25 mm, 1830 mm x 3050 mm opening, 915 mm high transom WOOD & PLASTIC DOORS WOOD & PLASTIC DOORS WOOD FRAMES: Exterior trame,including exterior trim,pine, 30 mm upto 167 mm deep Exterior trame,including exterior trim,oak or walnut, 30 mm upto 167 mm deep Exterior wood sills, 50 mm x 200 mm deep oak	1	м	2.00 Carpenters 1.00 Helper	110.000	127.000	118.500	0.14 0.16 0.53
082 050 082 054 082 504-0440 082 504-0600 082 504-1000	Aluminum doors & frames,entrance,narrow stile,including hardware, closer,and double glazed 25 mm, 1830 mm x 3050 mm opening, 915 mm high transom WOOD & PLASTIC DOORS WOOD & PLASTIC DOORS WOOD FRAMES: Exterior frame,including exterior trim,pine, 30 mm upto 167 mm deep Exterior frame,including exterior trim,oak or walnut, 30 mm upto 167 mm deep Exterior wood sills, 50 mm x 200 mm deep oak Wood frame,interior pine, 17 mm upto 132 mm deep	1	м	2.00 Carpenters 1.00 Helper	110.000 100.000 30.000	127.000 115.000 35.000	118.500 107.500 32.500	0.14 0.16 0.53 0.14
052 082 050 082 054 082 504-0440 082 504-0600 082 504-1000 082 504-3000	Aluminum doors & frames,entrance,narrow stile,including hardware, closer,and double glazed 25 mm, 1830 mm x 3050 mm opening, 915 mm high transom WOOD & PLASTIC DOORS WOOD & PLASTIC DOORS WOOD FRAMES: Exterior trame,including exterior trim,pine, 30 mm upto 167 mm deep Exterior frame,including exterior trim,oak or walnut, 30 mm upto 167 mm deep Exterior wood sills, 50 mm x 200 mm deep oak Wood frame,interior pine, 17 mm upto 132 mm deep Wood frame,interior, oak or walnut, 17 mm upto 132 mm deep			2.00 Carpenters 1.00 Helper	110.000 100.000 30.000 110.000	127.000 115.000 35.000 127.000	118.500 107.500 32.500 118.500 107.500	0.14 0.16 0.53 0.14
082 050 082 054 082 504-0440 082 504-0600 082 504-1000 082 504-3000 082 504-3240	Aluminum doors & frames,entrance,narrow stile,including hardware, closer,and double glazed 25 mm, 1830 mm x 3050 mm opening, 915 mm high transom WOOD & PLASTIC DOORS WOOD & PLASTIC DOORS WOOD FRAMES: Exterior trame,including exterior trim,pine, 30 mm upto 167 mm deep Exterior trame,including exterior trim,oak or walnut, 30 mm upto 167 mm deep Exterior wood sills, 50 mm x 200 mm deep oak Wood frame,interior pine, 17 mm upto 132 mm deep Wood frame,interior, oak or walnut, 17 mm upto 132 mm deep Wood door pocket frame		EA.	2.00 Carpenters 1.00 Helper	110.000 100.000 30.000 110.000 15.000	127.000 115.000 35.000 127.000 115.000	118.500 107.500 32.500 118.500 107.500 16.000	0.14 0.16 0.53 0.14 0.18
082 050 082 054 082 504-0440 082 504-0600 082 504-3000 082 504-3600 082 504-3600	Aluminum doors & frames,entrance,narrow stile,including hardware, closer,and double glazed 25 mm, 1830 mm x 3050 mm opening, 915 mm high transom WOOD & PLASTIC DOORS WOOD & PLASTIC DOORS WOOD FRAMES: Exterior frame,including exterior trim,pine, 30 mm upto 167 mm deep Exterior frame,including exterior trim,oak or walnut, 30 mm upto 167 mm deep Exterior wood sills, 50 mm x 200 mm deep oak Wood frame,interior pine, 17 mm upto 132 mm deep Wood frame,interior, oak or walnut, 17 mm upto 132 mm deep Wood door pocket frame Door threshold,oak 16 mm x 90 mm deep	1	EA M	2.00 Carpenters 1.00 Helper	110.000 100.000 30.000 110.000 15.000	127.000 115.000 35.000 127.000 115.000 17.000 63.000	118.500 107.500 32.500 118.500 107.500 16.000 59.000	0.14 0.16 0.53 0.14 0.16 1.06
082 050 082 054 082 504-0440 082 504-0600 082 504-3000 082 504-3240 082 504-3800 082 504-3800	Aluminum doors & frames,entrance,narrow stile,including hardware, closer,and double glazed 25 mm, 1830 mm x 3050 mm opening, 915 mm high transom WOOD & PLASTIC DOORS WOOD & PLASTIC DOORS WOOD FRAMES: Exterior trame,including exterior trim,pine, 30 mm upto 167 mm deep Exterior frame,including exterior trim,oak or walnut, 30 mm upto 167 mm deep Exterior wood sitls, 50 mm x 200 mm deep oak Wood frame,interior pine, 17 mm upto 132 mm deep Wood frame,interior, oak or walnut, 17 mm upto 132 mm deep Wood door pocket frame Door threshold,oak 16 mm x 90 mm deep Door threshold,oak 16 mm x 145 mm deep	1	EA.	2.00 Carpenters 1.00 Helper	110.000 100.000 30.000 110.000 15.000	127.000 115.000 35.000 127.000 115.000	118.500 107.500 32.500 118.500 107.500 16.000	0.14 0.16 0.53 0.14 0.16 0.29 0.32
082 050 082 054 082 504-0440 082 504-0600 082 504-3000 082 504-3600 082 504-3600	Aluminum doors & frames,entrance,narrow stile,including hardware, closer,and double glazed 25 mm, 1830 mm x 3050 mm opening, 915 mm high transom WOOD & PLASTIC DOORS WOOD & PLASTIC DOORS WOOD FRAMES: Exterior frame,including exterior trim,pine, 30 mm upto 167 mm deep Exterior frame,including exterior trim,oak or walnut, 30 mm upto 167 mm deep Exterior wood sills, 50 mm x 200 mm deep oak Wood frame,interior pine, 17 mm upto 132 mm deep Wood frame,interior, oak or walnut, 17 mm upto 132 mm deep Wood door pocket frame Door threshold,oak 16 mm x 90 mm deep	1	EA M	2.00 Carpertiers 1.00 Helpier 2.00 Power Took	110.000 100.000 30.000 110.000 15.000	127.000 115.000 35.000 127.000 115.000 17.000 63.000	118.500 107.500 32.500 118.500 107.500 16.000 59.000	0.14 0.16 0.53 0.14 0.16 1.06
082 050 082 054 082 054 082 504-0440 082 504-0600 082 504-3000 082 504-3240 082 504-3800 082 504-3800 082 504-3840	Aluminum doors & frames,entrance,narrow stile,including hardware, closer,and double glazed 25 mm, 1830 mm x 3050 mm opening, 915 mm high transom WOOD & PLASTIC DOORS WOOD & PLASTIC DOORS WOOD FRAMES: Exterior frame,including exterior trim,pine, 30 mm upto 167 mm deep Exterior frame,including exterior trim,oak or walnut, 30 mm upto 167 mm deep Exterior wood sills, 50 mm x 200 mm deep oak Wood frame,interior pine, 17 mm upto 132 mm deep Wood frame,interior, oak or walnut, 17 mm upto 132 mm deep Wood door pocket frame Door threshold,oak 16 mm x 90 mm deep Door threshold,oak 16 mm x 145 mm deep WOOD DOOR, ARCHITECTURAL:	i i	EA M	2.00 Carpenters 1.00 Helper	110.000 100.000 30.000 110.000 15.000	127.000 115.000 35.000 127.000 115.000 17.000 63.000	118.500 107.500 32.500 118.500 107.500 16.000 59.000	0.14 0.16 0.53 0.14 0.16 1.06
082 050 082 054 82 504-0440 82 504-0600 82 504-3000 82 504-3240 82 504-3600 82 504-3840 82 504-3840 82 504-3840 82 504-3840	Aluminum doors & frames,entrance,narrow stile,including hardware, closer,and double glazed 25 mm, 1830 mm x 3050 mm opening, 915 mm high transom WOOD & PLASTIC DOORS WOOD & PLASTIC DOORS WOOD FRAMES: Exterior frame,including exterior trim,pine, 30 mm upto 167 mm deep Exterior frame,including exterior trim,oak or walnut, 30 mm upto 167 mm deep Exterior wood sills, 50 mm x 200 mm deep oak Wood frame,interior pine, 17 mm upto 132 mm deep Wood frame,interior, oak or walnut, 17 mm upto 132 mm deep Wood door pocket frame Door threshold,oak 16 mm x 90 mm deep Door threshold,oak 16 mm x 145 mm deep WOOD DOOR, ARCHITECTURAL: Interior "Wood door architectural, flush, 44 mm, 7 ply hollow core,any type of wood veneer, 610 mm x 2035 mm,hardware and frame not included	i i	EA.	2.00 Carpertiers 1.00 Helpier 2.00 Power Tools 0.125 Skilled Foreman 2.00 Carpertiers 1.00 Helpier	110.000 100.000 30.000 110.000 15.000 55.000	127.000 115.000 35.000 127.000 115.000 17.000 63.000 58.000	118.500 107.500 32.500 118.500 107.500 16.000 59.000 54.000	0.14 0.55 0.14 0.14 1.00 0.23
32	Aluminum doors & frames,entrance,narrow stile,including hardware, closer,and double glazed 25 mm, 1830 mm x 3050 mm opening, 915 mm high transom WOOD & PLASTIC DOORS WOOD & PLASTIC DOORS WOOD FRAMES: Exterior trame,including exterior trim,pine, 30 mm upto 167 mm deep Exterior trame,including exterior trim,oak or walnut, 30 mm upto 167 mm deep Exterior wood sills, 50 mm x 200 mm deep oak Wood frame,interior pine, 17 mm upto 132 mm deep Wood frame,interior, oak or walnut, 17 mm upto 132 mm deep Wood door pocket frame Door threshold,oak 16 mm x 90 mm deep Door threshold,oak 16 mm x 145 mm deep WOOD DOOR, ARCHITECTURAL: Interior 'Wood door architectural, flush, 44 mm, 7 ply hollow core,any type of wood veneer, 610 mm x 2035 mm,hardware and frame not included Interior Wood door architectural, flush, 44 mm, 7 ply,hollow core, 1220 mm x 2135 mm,hardware and frame not included Interior Wood door,architectural flush, 44mm, 7 ply,hollow core, 1220 mm x 2135 mm,hardware and frame not included	i i	EA.	2.00 Carpertiers 1.00 Helpier 2.00 Power Tools 0.125 Skilled Foreman 2.00 Carpertiers 1.00 Helpier	110.000 100.000 30.000 110.000 15.000 55.000	127.000 115.000 35.000 127.000 115.000 17.000 63.000 58.000	118.500 107.500 32.500 118.500 107.500 16.000 59.000 54.000	0.14 0.55 0.14 0.16 1.06 0.25 1.00
32	Aluminum doors & frames,entrance,narrow stile,including hardware, closer,and double glazed 25 mm, 1830 mm x 3050 mm opening, 915 mm high transom WOOD & PLASTIC DOORS WOOD & PLASTIC DOORS WOOD FRAMES: Exterior trame,including exterior trim,pine, 30 mm upto 167 mm deep Exterior frame,including exterior trim,oak or walnut, 30 mm upto 167 mm deep Exterior wood sills, 50 mm x 200 mm deep oak Wood frame,interior, oak or walnut, 17 mm upto 132 mm deep Wood frame,interior, oak or walnut, 17 mm upto 132 mm deep Wood door pocket frame Door threshold,oak 16 mm x 90 mm deep Door threshold,oak 16 mm x 145 mm deep WOOD DOOR, ARCHITECTURAL: Interior 'Wood door architectural, flush, 44 mm, 7 ply hollow core,any type of wood veneer, 610 mm x 2035 mm,hardware and frame not included Interior Wood door architectural flush, 44mm, 7 ply,hollow core, 1220 mm x 2135 mm,hardware and trame not included Interior Wood door,architectural flush,medium duty,overlay on hardboard 915 mm x 2035 mm,hardware and trame not included Interior Wood door architectural, flush,medium duty,overlay on hardboard 1220 mm x 2035 mm,hardware and trame not included	i i	EA.	2.00 Carpertiers 1.00 Helpier 2.00 Power Tools 0.125 Skilled Foreman 2.00 Carpertiers 1.00 Helpier	110.000 100.000 30.000 110.000 15.000 55.000 16.000	127.000 115.000 35.000 127.000 115.000 53.000 58.000	118.500 107.500 32.500 118.500 107.500 16.000 59.000 17.000	0.1/ 0.1/ 0.5/ 0.1/ 1.0/ 0.2/ 1.0/ 1.0/
032 82 050 82 054 82 504-0400 82 504-0600 82 504-3000 82 504-3000 82 504-3600 82 504-3800 82 504-3800 82 504-3800 82 504-3800 82 504-3800 82 504-3800 82 062-0100 82 062-0100 82 062-1120 82 062-11400	Aluminum doors & frames,entrance,narrow stile,including hardware, closer,and double glazed 25 mm, 1830 mm x 3050 mm opening, 915 mm high transom WOOD & PLASTIC DOORS WOOD & PLASTIC DOORS WOOD FRAMES: Exterior frame,including exterior trim,pine, 30 mm upto 167 mm deep Exterior frame,including exterior trim,oak or walnut, 30 mm upto 167 mm deep Exterior wood sills, 50 mm x 200 mm deep oak Wood frame,interior pine, 17 mm upto 132 mm deep Wood frame,interior, oak or walnut, 17 mm upto 132 mm deep Wood door pocket frame Door threshold,oak 16 mm x 90 mm deep Door threshold,oak 16 mm x 145 mm deep WOOD DOOR, ARCHITECTURAL: Interior 'Wood door architectural, flush, 44 mm, 7 ply hollow core, any type of wood veneer, 610 mm x 2035 mm,hardware and frame not included Interior Wood door architectural, flush, 44mm, 7 ply,hollow core, 1220 mm x 2135 mm,hardware and trame not included Interior Wood door architectural flush,medium duty,overlay on hardboard 915 mm x 2035 mm,hardware and trame not included Interior Wood door architectural, flush,medium duty,overlay on hardboard 1220 mm x 2135 mm,hardware and trame not included Interior Wood door architectural, flush,medium duty,overlay on hardboard 1220 mm x 2135 mm,hardware and trame not included Interior Wood door architectural, flush,medium duty,overlay on hardboard 1220 mm x 2135 mm,hardware and trame not included Interior Wood door architectural, flush,medium duty,overlay on hardboard 1220 mm x 2135 mm,hardware and trame not included	i i	EA.	2.00 Carpertiers 1.00 Helpier 2.00 Power Tools 0.125 Skilled Foreman 2.00 Carpertiers 1.00 Helpier	110.000 100.000 30.000 110.000 15.000 55.000 16.000	127.000 115.000 35.000 127.000 115.000 17.000 58.000 17.000 17.000	118.500 107.500 32.500 118.500 107.500 16.000 59.000 54.000 17.000	0.14 0.55 0.14 0.16 1.06 0.25 1.00 1.00
082 050 082 054 082 054 082 504-0400 82 504-3000 82 504-3800 82 504-3800 82 504-3840 082 062-0100 82 062-1120 82 062-11400 82 062-11820	Aluminum doors & frames,entrance,narrow stile,including hardware, closer,and double glazed 25 mm, 1830 mm x 3050 mm opening, 915 mm high transom WOOD & PLASTIC DOORS WOOD & PLASTIC DOORS WOOD FRAMES: Exterior frame,including exterior trim,pine, 30 mm upto 167 mm deep Exterior frame,including exterior trim,oak or walnut, 30 mm upto 167 mm deep Exterior wood sills, 50 mm x 200 mm deep oak Wood frame,interior pine, 17 mm upto 132 mm deep Wood frame,interior, oak or walnut, 17 mm upto 132 mm deep Wood door pocket frame Door threshold,oak 16 mm x 90 mm deep Door threshold,oak 16 mm x 145 mm deep WOOD DOOR, ARCHITECTURAL: Interior 'Wood door architectural, flush, 44 mm, 7 ply hollow core,any type of wood veneer, 610 mm x 2035 mm,hardware and frame not included Interior Wood door architectural flush, 44mm, 7 ply,hollow core, 1220 mm x 2135 mm,hardware and frame not included Interior Wood door architectural flush,medium duty,overlay on hardboard 915 mm x 2035 mm,hardware and frame not included Interior Wood door architectural, flush,medium duty,overlay on hardboard 1220 mm x 2135 mm,hardware and frame not included Interior Wood door architectural, flush,medium duty,overlay on hardboard 1220 mm x 2135 mm,hardware and frame not included Interior Wood door architectural, flush,high pressure plastic laminate 915 mm x 2135 mm,hardware and frame not included Interior Wood door architectural, flush,high pressure plastic laminate 1220 mm x 2440 Interior Wood door architectural, flush,high pressure plastic laminate 1220 mm x 2440	i i	EA.	2.00 Carpertiers 1.00 Helpier 2.00 Power Tools 0.125 Skilled Foreman 2.00 Carpertiers 1.00 Helpier	110.000 100.000 30.000 110.000 15.000 55.000 16.000 15.000	127.000 115.000 35.000 127.000 115.000 17.000 58.000 18.000 17.000	118.500 107.500 32.500 118.500 107.500 16.000 59.000 17.000 16.000	0.14 0.16 0.53 0.14 0.16 1.06 1.00
082 050 082 054 082 054 082 504-0600 082 504-1000 082 504-3000 082 504-3240 082 504-3800 082 504-3800 082 504-3800 082 504-3800 082 504-3800 082 062-1000 082 062-1100 082 062-1100 082 062-1100 082 062-1100 082 062-1100 082 062-1100 082 062-1100	Aluminum doors & frames,entrance,narrow stile,including hardware, closer,and double glazed 25 mm, 1830 mm x 3050 mm opening, 915 mm high transom WOOD & PLASTIC DOORS WOOD & PLASTIC DOORS WOOD FRAMES: Exterior frame,including exterior trim,pine, 30 mm upto 167 mm deep Exterior frame,including exterior trim,oak or walnut, 30 mm upto 167 mm deep Exterior wood sills, 50 mm x 200 mm deep oak Wood frame,interior pine, 17 mm upto 132 mm deep Wood frame,interior, oak or walnut, 17 mm upto 132 mm deep Wood door pocket frame Door threshold,oak 16 mm x 90 mm deep Door threshold,oak 16 mm x 145 mm deep WOOD DOOR, ARCHITECTURAL: Interior 'Wood door architectural, flush, 44 mm, 7 ply hollow core, any type of wood veneer, 610 mm x 2035 mm,hardware and frame not included Interior Wood door architectural, flush, 44mm, 7 ply,hollow core, 1220 mm x 2135 mm,hardware and frame not included Interior Wood door architectural flush,medium duty,overlay on hardboard 915 mm x 2035 mm,hardware and frame not included Interior Wood door architectural, flush,medium duty,overlay on hardboard 1220 mm x 2135 mm,hardware and frame not included Interior Wood door architectural, flush,medium duty,overlay on hardboard 1220 mm x 2135 mm,hardware and frame not included Interior Wood door architectural, flush,high pressure plastic laminate 915 mm x 2135 mm,hardware and frame not included Interior Wood door architectural, flush birth pressure plastic laminate 1220 mm x 2440 meters are p	i i	EA.	2.00 Carpertiers 1.00 Helpier 2.00 Power Tools 0.125 Skilled Foreman 2.00 Carpertiers 1.00 Helpier	110.000 100.000 30.000 110.000 15.000 55.000 16.000 15.000	127.000 115.000 35.000 127.000 115.000 17.000 58.000 17.000 18.000	118.500 107.500 32.500 118.500 107.500 16.000 59.000 17.000 16.000 17.000	0.14 0.53 0.14 0.16 1.06 0.23
082 050 082 050 082 054 082 504-0600 082 504-0000 082 504-3000 082 504-3240 082 504-3840 082 504-3840 082 504-3840 082 062-0020 082 062-0100 082 062-1400 082 062-1840 082 062-1840 082 062-1840	Aluminum doors & frames,entrance,narrow stile,including hardware, closer,and double glazed 25 mm, 1830 mm x 3050 mm opening, 915 mm high transom WOOD & PLASTIC DOORS WOOD & PLASTIC DOORS WOOD FRAMES: Exterior frame,including exterior trim,pine, 30 mm upto 167 mm deep Exterior frame,including exterior trim,oak or walnut, 30 mm upto 167 mm deep Exterior wood sills, 50 mm x 200 mm deep oak Wood frame,interior, oak or walnut, 17 mm upto 132 mm deep Wood frame,interior, oak or walnut, 17 mm upto 132 mm deep Wood door pocket frame Door threshold,oak 16 mm x 90 mm deep Door threshold,oak 16 mm x 145 mm deep WOOD DOOR, ARCHITECTURAL: Interior 'Wood door architectural, flush, 44 mm, 7 ply hollow core,any type of wood veneer, 610 mm x 2035 mm,hardware and frame not included Interior Wood door architectural flush, 44mm, 7 ply,hollow core, 1220 mm x 2135 mm,hardware and frame not included Interior Wood door architectural flush,medium duty,overlay on hardboard 915 mm x 2035 mm,hardware and frame not included Interior Wood door architectural, flush,medium duty,overlay on hardboard 1220 mm x 2135 mm,hardware and frame not included Interior Wood door architectural, flush,high pressure plastic laminate 915 mm x 2135 mm,hardware and frame not included Interior Wood door architectural, flush,high pressure plastic laminate 1220 mm x 2440 mm,hardware and frame not included Interior Wood door architectural, flush, 5 ply particle core,veneered any wood veneer, 915 mm x 2135 mm,hardware and frame not included Interior Wood door architectural flush, 5 ply particle core,veneered any wood veneer, 915 mm x 2135 mm,hardware and frame not included Interior Wood door architectural flush, 5 ply particle core,veneered any wood veneer, 915 mm x 2135 mm,hardware and frame not included Interior Wood door architectural flush, 5 ply particle core,veneered any wood veneer, 915 mm x 2135 mm,hardware and frame not included	i i	EA.	2.00 Carpertiers 1.00 Helpier 2.00 Power Tools 0.125 Skilled Foreman 2.00 Carpertiers 1.00 Helpier	110.000 100.000 30.000 110.000 15.000 55.000 16.000 15.000 15.000 15.000	127.000 115.000 35.000 127.000 115.000 17.000 18.000 17.000 18.000 17.000	118.500 107.500 32.500 118.500 107.500 16.000 59.000 17.000 16.000 17.000 16.000	0.14 0.50 0.14 0.16 1.06 1.06 1.06
082 050 082 054 082 504-0440 082 504-0600 082 504-3000 082 504-3240 082 504-3800 082 504-3800	Aluminum doors & frames,entrance,narrow stile,including hardware, closer,and double glazed 25 mm, 1830 mm x 3050 mm opening, 915 mm high transom WOOD & PLASTIC DOORS WOOD & PLASTIC DOORS WOOD FRAMES: Exterior trame,including exterior trim,pine, 30 mm upto 167 mm deep Exterior trame,including exterior trim,oak or walnut, 30 mm upto 167 mm deep Exterior wood sills, 50 mm x 200 mm deep oak Wood frame,interior pine, 17 mm upto 132 mm deep Wood frame,interior, oak or walnut, 17 mm upto 132 mm deep Wood door pocket frame Door threshold,oak 16 mm x 90 mm deep Door threshold,oak 16 mm x 145 mm deep WOOD DOOR, ARCHITECTURAL: Interior 'Wood door architectural, flush, 44 mm, 7 ply hollow core, any type of wood veneer, 610 mm x 2035 mm,hardware and frame not included Interior Wood door architectural, flush, 44mm, 7 ply,hollow core, 1220 mm x 2135 mm,hardware and frame not included Interior Wood door architectural, flush,medium duty,overlay on hardboard 915 mm x 2035 mm,hardware and frame not included Interior Wood door architectural, flush,medium duty,overlay on hardboard 1220 mm x 2135 mm,hardware and frame not included Interior Wood door architectural, flush,high pressure plastic laminate 915 mm x 2135 mm,hardware and frame not included Interior Wood door architectural, flush, high pressure plastic laminate 1220 mm x 2440 mm,hardware and frame not included Interior Wood door architectural, flush, pigh pressure plastic laminate 1220 mm x 2440 mm,hardware and frame not included Interior Wood door architectural flush, 5 ply particle core, veneered any wood veneer, 915 mm x 2135 mm, hardware and frame not included Interior Wood door architectural flush, 5 ply particle core, veneered any wood veneer, 1220 mm x 2135 mm, hardware and frame not included Interior Wood door architectural flush, 5 ply particle core, veneered any wood veneer, 1220 mm x 2135 mm, hardware and frame not included Interior Wood door architectural flush, 5 ply particle core, veneered any wood veneer, 1220 mm x 2135 mm, hardware and	i i	EA.	2.00 Carpertiers 1.00 Helpier 2.00 Power Tools 0.125 Skilled Foreman 2.00 Carpertiers 1.00 Helpier	110.000 100.000 30.000 110.000 15.000 55.000 15.000 15.000 15.000 15.000 15.000 15.000	127.000 115.000 35.000 127.000 115.000 17.000 58.000 18.000 17.000 18.000 17.000 14.000	118.500 107.500 32.500 118.500 16.000 59.000 54.000 17.000 16.000 17.000 16.000	0.10 0.10 0.50 0.11 1.00 0.20 0.3 1.00 1.00 1.00 1.00

CSI				CREW			D. O.	AVRG.
CODE	ITEM DESCRIPTION	UI	TIP	STRUCTURE	D. O. MIN.	D. O. MAX.	AVERG.	E.H.
82 062-3780	Interior Wood door architectural ,flush, with plastic laminate on hardwood, 915 mm x				10.000	12.000	11.000	1.60
82 062-3800	Interior Wood door architectural, flush, with plastic laminate on hardwood, 1220 mm v				8.000	9.000	8.500	2.00
82 062-4040	Estation Wood door architectural flush colid wood core birch or oak or walnut uppagred				14.000	16.000	15.000	1.14
082 066	WOOD DOOR, DECORATOR:							
82 066-3020	Wood doors,decorator,solid wood,mahogany,pine or red oak, 44 mm, 915 mm x 2135 mm, average,hardware & frame not included	E	A	0.125 Skilled Foreman 2.00 Carpenters 1.00 Helper	13.000	15.000	14.000	1.23
82 066-3040	Wood doors, decorator, solid wood, mahogany, pine or red oak, 44 mm, 1067 mm x 2440			2.00 Power Tools	9.000	10.000	9.500	1.77
82 066-4000	mm, average,hardware & frame not included Wood door,hand carved,mahogany or red oak, 915 mm x 2135 mm,				13.000	15.000	14.000	1.23
82 066-4040	average,hardware & frame not included Wood door,hand carved,mahogany or red oak,1067 mm x 2440 mm,				9,000	10.000	9.500	1.77
82 066-6520	Wood door interior cafe doors 915 mm opening panel nine hardware & frame not	Н			15.000	17.000	16.000	1.06
	Wood door interior cate doors 915 mm opening lowered nine hardware & trame not	Н			15.000	Malegora	- 1100-00-110	1,000
082 066-6550	included		_		15.000	17.000	16.000	1.06
082 070	WOOD FIRE DOORS:	_	-	0.125 Skilled Foreman	1			
082 070-0040	Wood fire doors Mineral core, 3 ply stile,1 hour rated, veneered any type, 44 mm x 765 mm x 2035 mm,hardware & frame not included	E	A	2.00 Carpenters 1.00 Helper 2.00 Power Tools	13.000	15.000	14.000	1.23
82 070-0090	Wood fire doors Mineral core, 3 ply stile,1 hour rated, veneered any type, 44 mm x 915 mm x 2135 mm,hardware & frame not included				11.000	13.000	12.000	1.45
82 070-0100	Wood fire doors Mineral som 2 plu stile 1 hour reted approved on the Affirm v 1220				11.000	13.000	12.000	1.45
82 070-0490	Wood fire doors 1 hour rated medium duty anday on hardhoard 44 mm thick 915				12.000	14.000	13.000	1.33
82 070-0500	Wood fire doors, 1 hour rated medium duty overlay on hardboard, 44 mm thick, 1220				11.000	13.000	12.000	1.45
82 070-0580	mm x 2135 mm,hardware & frame not included Wood fire doors, 1 hour rated, with high pressure plastic laminated, 44 mm thick, 915				11.000	13.000	12,000	1.45
82 070-0590	mm x 2035 mm,hardware & frame not included Wood fire doors, 1 hour rated, with high pressure plastic laminated,44mm thick, 915				10.000	12,000	11.000	1.60
082 070-0600	mm x 2135 mm,hardware & frame not included Wood fire doors, 1 hour rated, with high pressure plastic laminated, 44 mm thick, 1220 mm x 2135 mm,hardware & frame not included				11.000	13.000	12.000	1.45
82 070-2260	Wood fire doors,custom architectural 1 hour rated,flush, 44 mm thick,solid core				13.000	15.000	14.000	1.23
82 070-2300	915 mm x 2135 mm,hardware & frame not included Wood fire doors,custom architectural 1 hour rated,flush, 44 mm thick,solid core				12.000	14.000	13.000	1.33
82 070-2400	1220 mm x 2135 mm,hardware & frame not included Wood fire doors,custom architectural 1 hour rated,flush, 44 mm thick,solid core	\vdash	_		10.000	12.000	11.000	1.60
	1220 mm x 2440 mm,hardware & frame not included	•		· •	10.000	12.000	11.000	1.00
0 82 074 82 074-0080	WOOD DOORS, PANELED: Wood doors,paneled interior,six panel,hollow core, 35 mm thick,molded hardboard 915 mm x 2035 mm,hardware & frame not included	E	٨	0.125 Skilled Foreman 2.00 Carpenters 1.00 Helper 2.00 Power Tools	16.000	18.000	17.000	1.00
82 074-0560	Wood doors,paneled interior,six panel,solid, 35 mm thick,pine, 765 mm x2135 mm,hardware & frame not included				13.000	15.000	14.000	1.23
82 074-0580	Wood doors,paneled interior,six panel,solid, 35 mm thick,pine, 915 mm x 2135 mm,hardware & frame not included				12.000	14.000	13.000	1.33
082 078	WOOD DOORS, RESIDENTIAL:							
82 078-0260	Wood doors,residential, exterior,combination storm & screen,pine,full lite, 2055 mm x 815 mm wide,hardware & frame not included	E	A	0.125 Skilled Foreman 2.00 Carpenters 1.00 Helper 2.00 Power Tools	9.000	10.000	9.500	1.778
82 078-0300	Wood doors,residential, exterior,combination storm & screen,pine,full lite, 2135 mm x 915 mm wide,hardware & frame not included				8.000	9.000	8.500	2.00
82 078-1020	Exterior wood doors,entrance, 6 panel pine, 44 mm x 2135 mm x 915 mm				14.000	16.000	15.000	1.14
82 078-1120	wide,hardware & frame not included Exterior wood doors,entrance, 8 panel pine, 44 mm x 2135 mm x 915 mm				14.000	16.000	15.000	1.14
32 078-2700	Wide,hardware & frame not included Wood doors,interior closet,bi-fold,w/hardware,no frame or trim included,			1 1 1 1 1 1 1 1 1	12.000	14.000	13.000	1.33
32 078-2760	flush, 1980 mm or 2035 mm high x 915 mm wide Wood doors,interior,closet bi-fold,w/hardware,no frame or trim included,		-		11.000	13.000	12.000	1.45
Andrew Commence of	flush, 1980 mm or 2035 mm high x 1220 mm wide Wood doors,interior closet,bi-fold,w/hardware,no frame or trim included,		_		-		2.30.3000	100
82 078-2780	flush, 1980 mm or 2035 mm high x 1525 mm wide Wood doors,interior closet,bi-fold,w/hardware,no frame or trim included,				10.000	12.000	11.000	1.60
	- 1000 000 openion of occupation, minimum and pro- matrix of third included,			1	12.000	14.000	13.000	1.33
82 078-320 0	louvered,pine,1980 mm or 2035 mm x 915 mm wide	-	-		1			
82 078-3200 82 078-3280	louvered,pine,1980 mm or 2035 mm x 915 mm wide Wood doors,interior closet,bi-fold,w/hardware,no frame or trim included, louvered,pine, 1980 mm or 2035 mm x 1830 mm wide				9.000	10.000	9.500	0.45

CSI ODE	08 :DOORS & WINDOWS ITEM DESCRIPTION	UI	TIN		CREW	description (a)	D. O. MIN.	D. O. MAX.	D. O. AVERG.	AVRG. E.H.
A Comment	PRE-HUNG DOORS:									
	Pre-hung doors,exterior,wood,combination storm & screen, 2055 mm x 915 mm wide	1	EA	2.00 C	Skilled Foreman arpenters Helper Tools		14.000	16.000	15.000	1.14
	Pre-hung doors interior, 117 mm solid jamb, flush, solid core,						18.000	21.000	19.500	0.88
182 -444U	35 mm x 2035 mm x 915 mm wide Pre-hung doors,interior, 117 mm solid jamb,flush,hollow core,						18.000	21.000	19.500	0.88
)82 -464 0	35 mm x 2035 mm x 915 mm wide		·		MINIS	THE PER	18/10/18	W. Carl		
3	SPECIAL DOORS									
3 050	ACCESS DOORS									
3 054	ACCESS DOORS:				Skilled Forema	n	8.000	9.000	8.500	1.00
054-1100	Access doors, fire rated, with lock, metal, 300 mm x 300 mm		EA		Carpenter Power Tools		1.500		5953000	
and the same	Access doors, fire rated, with lock, metal, 455 mmx 455 mm						7.000		7.500	1,1
	Access doors, fire rated, with lock, metal, 610 mm x 610 mm						7.000			0.00
	Access doors, fire rated, with lock, metal, 915 mm x 915 mm						6.000	Laboreto Control	2000	
	Access doors, fire rated, with lock, metal, 1220 mm x 1220 mm			L			6.000	10000	10.120	
	Access doors, fire rated, with lock, stainless steel, 300mm x 300 mm						8.000		+	
054-1600	Access doors, fire rated, with lock, stainless steel, 610 mm x 610 mm						7,000	0.0000000		
054-1700	Access doors, fire rated, with lock, stainless steel. 610 mm x 915 mm						6.00	V 1/2-0	- 500000	
	Recessed access door,for acoustic tile,metal, 300 x 300 mm						3.00		1	27
	Recessed access door,for acoustic tile,metal, 610 mm x 610 mm						3.00	2 1.00		
	Recessed access door,for acoustic tile,metal, 610 mm x915 mm						3.00	-	0.000	
	Recessed access door,for drywall,metal, 610 mm x 915 mm		+	1			4.00	5.00	0 4,50	2.0
83 100	SLIDING DOORS:							1	-	-
83 102	GLASS,SLIDING:						_		-	+
	Sliding vinyl clad door, 25 mm insulated glass, 1836 mm x 2440 mm high		EA	1.0	25 Skilled Foret Carpenters Helper Dever Tools	han	3.00	4.00	3.50	
	SE - levelated class 2440 mm X 2085 mm high		OPEN	NG			3.00	00 4.0	00 3.5	-
33 102-010	0 Sliding vinyl clad door, 25 mm insulated glass, 2440 mm X 2085 mm high 0 Sliding vinyl clad door, 25 mm insulated glass, 3 leaf, 3660 mm x 2085 mm high						2.00	00 23.0	00 12.5	00 8
	STEEL,SLIDING:								-	-
83 108 83 108-010	Steel, electric operated sliding door up to 15 m wide x 5.4 m high, standard duty, aver	age	SOI	u 5.0	00 Struc. Steel f 00 Struc. Steel f 00 Electrician 00 Laborers 00 Equip Oper.(00 Hyd Crans,2	Workers (crane)	27.0	00 31.0	00 29.0	
20 100 05	00 Steel, electric operated sliding door up to 15 m wide x 5.4 m high, heavy duty, average	е			4	•	24.0	000 28.0	00 26.0	00 0
216 3 S 1750/										
083 180	SECURITY DOORS See	div	isior	106	101					
083 182	SECURITY GATES									
083 184	Vault front door and frame, 815 mm x 1980 mm, clear opening, 1 hour test, weighs 340 kg, with time clock		OPE	NING 1	.125 Skilled For .00 Skilled Work .00 Electrician .00 Laborers .00 Power Took	kers	1.3	200 2.	000 1.	500 1
	Vault front door and frame, 815 mm x 1980 mm, clear opening, 2 hour test,						1.0	000 1.	000 1.	000 1
083 184-02	weighs 430 kg, with time clock			1			0.	750 1.	000 0.	875 2
083 184-02	weighs 512 kg, with time clock Vault front door and frame, 815 mm x 1980 mm,clear opening, 4 hour test,		-				0.	900 1.	000 0.	950 1
083 184-03	500)		+	-			0	.700 1	000 0	850 2
083 184-0	Vault front door and frame, 1015 mm x 1980 mm, clear opening, 4 hour test, weighs 517 kg, with time clock		-		per construct		- 28	5.00	000 0	540 20
083 184-2	050 Security vault door,class I		1.		×	<u> </u>				
083 250				-						
083 251	Cold storage door galvanized steel,horizontal sliding,manual, 1525 mm x 2135 m	nm x			0 125 Skilled Fo 2.00 Skilled Wo 2.00 Laborers		1	.850 2	.000	.925
	1500 150 mm				2.00 Power To	oks				-

Z

CODE	ITEM DESCRIPTION	UN	Т	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVERG.	AVRG. E.H.
083 251-1300	Cold storage door,galvanized_steel,horizontal_sliding,manual, 2745 mm x 3050 mm x	T		0.125 Skilled Foreman 2.00 Skilled Workers	1.600	2.000	1.800	10.00
765 251-1500	150mm	Ш		2.00 Laborers 2.00 Power Tools	1.000	2.000	1.000	10.00
83 251-2000	Cold storage door,galvanized steel,horizontal sliding,power operated, 2745 mm x 3050 mm x 150 mm	0		0.125 Skilled Foreman 2.00 Skilled Workers 1.00 Electrician 2.00 Laborers 2.00 Power Tools	1.500	2.000	1.750	10.66
83 251-3000	Cold storage door,galvanized steel,aluminum or stainless steel,hinged,lightweight, 915 mm x 2135 mm x 150 mm thick		A CONTRACTOR OF THE PARTY OF TH	0.125 Skilled Foreman 2.00 Skilled Workers 2.00 Laborers 2.00 Power Tools	1.300	2.000	1.650	12.30
83 251-5000	Cold storage door,galvanized steel,bi-parting,electric operated, 1830 mm x 2440 mm opening, 100 mm thick for cooler or freezer	OPEN		0.125 Skilled Foreman 2.00 Skilled Workers 1.00 Electrician 2.00 Laborers 2.00 Power Tools	0.750	1,000	0.875	21.33
083 251-6500	Cold storage 3 hr., fire rated door,galvanized steel,double Bi-parting, 1830 mm x 2440 mm	OPEN	NC3	0.125 Skilled Foreman 2.00 Skilled Workers 2.00 Laborers 2.00 Power Tools	0.650	1.000	0.825	24.61
083 300	COILING DOORS							
083 302	COUNTER DOORS:							
083 302-0600	Counter doors stainless steel,galvanized steel or aluminum, 1220mm high roll-up, 1830mm long	OPEN	NG	0.125 Skilled Foreman 2.00 Carpenters 1.00 Helper 2.00 Power Tools	1.900	2.000	1.950	8.42
083 302-0700	Counter doors stainless steel,galvanized steel or aluminum, 1220 mm high roll-up, 3000 mm long			(*)	1.700	2.000	1.850	9.41
083 400	COILING GRILLES		-					
083 402	ROLL UP GRILLE:	727=-			1			10000
083 402-0500	Roll up grille steel,manual operated, 4570 mm x 2440 mm high	son	4	0.125 Skilled Foreman 2.00 Skilled Workers 2.00 Laborers 2.00 Power Tools	7.000	B.000	7.500	2.286
083 406	ROLLING GRILLE SUPPORTS:							
083 406-0100	Rolling grille over head,frame support, opening 4.5 m x 2.44 m	LM	8	1.00 Struc: Foreman 3.00 Struct: Steel Workers 2.00 Laborers 1.00 Gas Welding Machine 2.00 Power Tools	10.000	12.000	11.000	2.400
083 350	FLEXIBLE DOORS	Spanner of						
083 551	FLEXIBLE TRANSPARENT STRIP ENTRANCE:					411150005313		
083 551-0200	Flexible transparent strip entrance door, 300 mm strip width,full overlap,including suspension	SURFA	CE	0.125 Skilled Foreman 3.00 Sheet Metal Workers 1.00 Helper 2.00 Power Tools	9.000	10.000	9.500	1.778
083 600	SECTIONAL OVERHEAD DOORS							
083 604	OVERHEAD,COMMERCIAL:	216						
083 604-1000	Commercial, overhead sectional door, wood, heavy duty, without frame, 45 mm thick, 2440 mm wide x 2440 mm high	EA	1	0.125 Skilled Foreman 2.00 Carpenters 1.00 Helper 2.00 Power Tooks	1.900	2.000	1.950	8.421
083 604-1100	Commercial, overhead sectional door, wood, heavy duty, without frame, 45 mm thick, 3050mm wide x 3050 mm high				1.700	2.000	1.850	9.412
83 604-1200	Commercial, overhead sectional door, wood, heavy duty, without frame, 45 mm thick, 3660 mm wide x 3660 mm high		T		1.500	2.000	1.750	10.667
83 604-1300	Commercial, overhead sectional door, chain hoist, wood, heavy duty, without frame, 45			-11.02	1.300	2.000	1.650	12.308
083 604-1400	mm thick, 4265 mm wide x 4265 mm high Commercial, overhead sectional door, chain hoist, wood, heavy duty, without frame, 45	11	+		0.950	1.000	0.975	16.842
83 604-1500	mm thick, 3660 mm wide x 4875 mm high Commercial, overhead sectional door, chain hoist, wood, heavy duty, without frame, 45	H	+		0.750	1.000	0.875	21.333
83 604-2300	mm thick, 6095 mm wide x 2440 mm high Commercial, overhead sectional door, fiberglass & aluminum, heavy duty, without frame.	+	+		1.350	2.000	1.675	11.852
	45 mm x 3660 mm x 3660 mm Commercial, overhead sectional chain hoist door, fiberglass & aluminum, heavy	1	+		1 7/25/55		A 100 C	13002535
03 004-2450	duty without frame, 45 mm x 6095 mm x 6095 mm Commercial overhead sectional door steel 24 ga, manual without frame 2440 mm x		-		0.450	1.000	0.725	35.556
03 004-2000	2440 mm		1	<u> </u>	1.900	2.000	1.950	8.421
03 004-2030	Commercial, overhead sectional door, steel 24 ga, manual, without frame 3050 mm x 3050 mm				1.700	2.000	1.850	9.412
	Commercial, overhead sectional chain hoisted door, steel 24 ga, manual, without frame 6095 mm x 4265 mm			Team Use ru	0.650	1.000	0.825	24.615
83 604-2900	Commercial Overhead Door, Electric trolley operator, 250W, overhead sectional doors upto 3.6 m x 3.6 m			0.125 Skilled Foreman 0.00 Carpenters 0.50 Electrician 0.00 Laborer 0.00 Power Tools	1.425	2.000	1.713	11.228
83 604-2950	Commercial Overhead Door, Electric trolley operator, 375W, for doors over 3660 mm x	T	f		1.200	2.000	1.600	13.333
2000	3660 mm	+						

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ede Valid

CSI		1000		CREW			D. O.	AVRG.
CODE	ITEM DESCRIPTION	UN	Т	STRUCTURE	D. O. MIN.	D. O. MAX.	AVERG.	E.H.
083 251-1300	Cold storage door,galvanized steel,horizontal sliding,manual, 2745 mm x 3050 mm x 150mm			0.125 Skilled Foreman 2.00 Skilled Workers 2.00 Laborers 2.00 Power Tools	1.600	2 000	1.800	10.00
983 251-2000	Cold storage door,galvanized steel,horizontal sliding,power operated, 2745 mm x 3050 mm x 150 mm			0.125 Skilled Foreman 2.00 Skilled Workers 1.00 Electrician 2.00 Laborers 2.00 Power Tools	1.500	2.000	1.750	10.66
083 251-3000	Cold storage door,galvanized steel,aluminum or stainless steel,hinged,lightweight, 915 mm x 2135 mm x 150 mm thick		2000000	0.125 Skilled Foreman 2.00 Skilled Workers 2.00 Laborers 2.00 Power Tools	1.300	2.000	1.650	12.30
983 251-5000	Cold storage door,galvanized steel,bi-parting,electric operated, 1830 mm x 2440 mm opening, 100 mm thick for cooler or freezer	OPEN	ING	0.125 Skilled Foreman 2.00 Skilled Workers 1.00 Electrician 2.00 Laborers 2.00 Power Tools	0.750	1.000	0.875	21.30
083 251-6500	Cold storage 3 hr., fire rated door,galvanized steel,double Bi-parting, 1830 mm x 2440 mm	OPEN	NG	0.125 Skilled Foreman 2.00 Skilled Workers 2.00 Laborers 2.00 Power Tools	0.650	1.000	0.825	24.61
083 300	COILING DOORS		- 1					
083 302	COUNTER DOORS:							
083 302-0600	Counter doors stainless steel galvanized steel or aluminum, 1220mm high roll-up, 1830 mm long	OPEN	NG	0.125 Skilled Foreman 2.00 Carpenters 1.00 Helper 2.00 Power Tools	1.900	2.000	1.950	8.42
083 302-0700	Counter doors stainless steel,galvanized steel or aluminum, 1220 mm high roll-up, 3000 mm long				1.700	2.000	1.850	9.41
083 400	COILING GRILLES		_					
083 402	ROLL UP GRILLE:	_						
	Roll up grille steel,manual operated, 4570 mm x 2440 mm high	son		0.125 Skilled Foreman 2.00 Skilled Workers 2.00 Laborers 2.00 Power Tools	7.000	B.000	7.500	2.28
083 406	ROLLING GRILLE SUPPORTS:							
083 406-0100	Rolling grille over head,frame support, opening 4.5 m x 2.44 m	LM		1.00 Struc. Foreman 3.00 Struct. Steel Workers 2.00 Laborers 1.00 Gas Welding Machine 2.00 Power Tools	10.000	12.000	11.000	2.40
083 350	FLEXIBLE DOORS							
083 551	FLEXIBLE TRANSPARENT STRIP ENTRANCE:							
83 551-0200	Flexible transparent strip entrance door, 300 mm strip width, full overlap, including suspension	SOM	CE	0.125 Skilled Foreman 3.00 Sheet Metal Workers 1.00 Helper 2.00 Power Tools	9.000	10.000	9.500	1.77
083 600	SECTIONAL OVERHEAD DOORS	A	1157					
083 604	OVERHEAD, COMMERCIAL:					12		
083 604-1000	Commercial, overhead sectional door, wood, heavy duty, without frame, 45 mm thick, 2440 mm wide x 2440 mm high	EA		0.125 Skilled Foreman 2.00 Carpenters 1.00 Helper 2.00 Power Tools	1.900	2.000	1.950	8.42
83 604-1100	Commercial, overhead sectional door, wood, heavy duty, without frame, 45 mm thick, 3050mm wide x 3050 mm high			11	1.700	2.000	1.850	9.41
83 604-1200	Commercial, overhead sectional door, wood, heavy duty, without frame, 45 mm thick, 3660 mm wide x 3660 mm high				1.500	2.000	1.750	10.66
83 604-1300	Commercial, overhead sectional door, chain hoist, wood, heavy duty, without frame, 45 mm thick, 4265 mm wide x 4265 mm high			(A. T.	1.300	2.000	1.650	12.308
83 604-1400	Commercial, overhead sectional door, chain hoist, wood, heavy duty, without frame, 45 mm thick, 3660 mm wide x 4875 mm high				0.950	1.000	0.975	16.84
83 604-1500	Commercial, overhead sectional door, chain hoist, wood, heavy duty, without frame, 45		1	ш	0.750	1.000	0.875	21.333
83 604-2300	mm thick, 6095 mm wide x 2440 mm high Commercial overhead sectional door, fiberglass & aluminum, heavy duty, without frame,		1		1.350	2.000	1.675	11.852
83 604-2450	45 mm x 3660 mm x 3660 mm Commercial, overhead sectional chain hoist door, fiberglass & aluminum, heavy	1	+		0.450	1.000	0.725	35.556
83 604-2600	duty,without frame, 45 mm x 6095 mm x 6095 mm Commercial,overhead sectional door,steel 24 ga, manual ,without frame 2440 mm x	+	+		1.900	2.000	1.950	8.421
83 604-2650	2440 mm Commercial, overhead sectional door, steel 24 ga, manual , without frame 3050 mm x	+	+		1.700	2.000	1.850	9.412
	3050 mm Commercial overhead sectional chain hoisted door, steel 24 ga, manual, without frame	+	+					- 12.700-270
83 604-2800 83 604-2900	6095 mm x 4265 mm Commercial Overhead Door, Electric trolley operator, 250W, overhead sectional doors	+	1	0.125 Skilled Foreman 0.00 Carpenters 0.50 Electrician	1.425	2.000	1.713	11.228
	upto 3.6 m x 3.6 m		1	.00 Laborer 2.00 Power Tools	= 3"			
83 604-2950	Commercial Overhead Door, Electric trolley operator, 375W, for doors over 3660 mm x 3660 mm	1		ж 5	1.200	2.000	1.600	13.833
			_		-			

CSI	N 08 :DOORS & WINDOWS ITEM DESCRIPTION	U	VIT	CREW	D. O. MIN	D. O. MAX.	D. O.	AVRG.
CODE			***	STRUCTURE	D. O. Mile.	D. O. MAX.	AVERG.	E.H.
084 701	REVOLVING DOORS:	1		0.125 Skilled Foreman				
084 701-0010	Revolving doors aluminum,up to 2.2 m diameter, 2.1 m high,average	OPE	NIN	4 000 Skilled workers	0.650	1.000	0.825	24.61
084 701-1000	Revolving doors stainless steel,up to 2.2 m diameter, 2.1 m,high,average				0.250	0.500	0.375	64.00
084 701-1100	Revolving doors solid bronze,up to 2.2 m diameter, 2.1 m,high,average				0.150	0.500	0.325	106.66
084 701-1500	Revolving doors solid bronze upto 2.2 m diameter, 2.1 m high, with automatic controls, average			0.125 Skilled Foreman 4.000 Skilled workers 0.250 Electrician 2.00 Laborers 2.000 Power Tools	0.150	0.500	0.325	106.66
085	METAL WINDOWS		E		RIE STATE	NAME OF TAXABLE		
085 100	STEEL WINDOWS	7==						
085 102	STEEL SASH:							
085 102-0100	Steel sash custom unit, including glazing & trim, casement, fixed	SC	M	0.125 Skilled Foreman 2.000 Skilled workers 1.00 Laborers 2.000 Power Tools	12,000	14.000	13.000	1.33
085 102-1500	Steel sash, industrial, fixed, including glazing & trim.horizontally, pivoted				12.000	14.000	13.000	1.33
085 102-2100	Industrial security sash including glazing & trim, fixed	-		l l	12.000	14.000	13.000	1.33
085 102-2500	Steel picture window including glazing & trim	1	м	0.125 Skilled Foreman 2.000 Skilled workers 1.00 Laborers 2.000 Power Tools	12.000	14.000	13.000	1.33
085 102-5000	Mullion for above steel sash items with interior cover				55.000	63.000	59.000	0.29
085 104	STEEL WINDOWS:							
085 104-1500	Commercial projected steel window including frame,trim & insulated glazing, 1145 mm x 1650 mm	E	A	0.125 Skilled Foreman 2.000 Skilled workers 1.00 Laborers 2.000 Power Tools	9.000	10.000	9.500	1.77
085 104-1600	Commercial projected steel window including frame, trim 8 insulated glazing, 2055 mm			.,	6.000	7.000	6.500	2.66
085 200	x 1245 mm ALUMINUM WINDOWS				- 1		77777	W. W.
085 202	ALUMINUM SASH:							_
085 202-0100	Fixed casement, aluminum sash window including glazing & trim.	sc	м	0.125 Skilled Foreman 2.000 Skilled workers 1.00 Laborers 2.000 Power Tools	12.000	14.000	13.000	1.333
085 202-0150	Fixed aluminum window sash,including glazing & trim				12.000	14.000	13.000	1.333
085 202-2000	Custom aluminum sash, without glazing	1		.	10.000	12.000	11.000	1,600
085 204	ALUMINUM WINDOWS:							
	Aluminum windows including frame and glazing casement type, 1 m x 1 m,including screen	E		6.125 Skilled Foreman 2.000 Skilled workers 1.00 Laborers 2.000 Power Tools	9.000	10.000	9.500	1.778
	Aluminum windows including frame and glazing,projected with screen, 1 m x 1 m				9.000	10.000	9.500	1,778
	Aluminum windows including frame and glazing,projected with screen, 1.4 m x 1.6 m				7.500	9.000	8.250	2.133
085 204-3000	Aluminum windows including frame and glazing, single hung, 600 mm x 900 mm, enameled, with insulating glass & screen				9.000	10.000	9.500	1.778
	Aluminum windows including frame and glazing, single hung, 900 mm x 2000	1			7.500	9.000	8.250	2.133
	mm,enameled,with insulating glass & screen Aluminum windows including frame and glazing,single hung, 1 m x 1.5 m ,powder	\forall			8.000		127012101	53,357,616
	coated, with insulating glass & screen Aluminum windows including frame and glazingawning type, 1 m x 1 m .powder	+			disastween.	9.000	8.500	2.000
700 204-3030	coated with insulating glass & screen Aluminum windows including frame and glazing, awing type, 1 m x1.2 m ,powder	-	1		13,000	15.000	14.000	1.231
00 20 4 00 10	coated, with standard glass & screen				9.000	10.000	9.500	1.778
	Aluminum windows including frame and glazing.grade C,awing type, 915 mm x 1220 mm opening.enameled,with standard glass & screen				9.000	10.000	9.500	1 778
85 204-3950	Aluminum windows including frame and glazing, awning type& hinged 1.2 m x 1.2 mm powder coated, with insulating glass & screen				8.000	9.000	8.500	2.000
85 204-4000	Aluminum windows including frame and glazing, sliding 1.2 m x 1.2 m, standard or				7.500	9,000	8.250	2.133
85 204-4300	insulating glass Aluminum windows including frame and glazing, sliding, 1.2 m x 1,5 m, standard or				7.500	9.000	8.250	2.133
-	Insulating glass Aluminum windows including frame and glazing, sliding,1.8 m x 2.44 m, standard or	-	+		0.00000	019 (349)	Anagar	
	nsulating glass Aluminum windows including frame and glazing sliding aluminum 2.7 m x 1.5 m		-		4.500	5.000	4.750	3.556
00 20 . 0000	opening,standard or insulating glass	+		+	3.750	5.000	4.375	4.267
erewordswith the	SCREENS							
085 701	SCREENS:							

CSI	ON 08 :DOORS & WINDOWS		CREW			D.O.	ALIEN
CODE	ITEM DESCRIPTION	UNIT	STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVERG.	AVRG. E.H.
085 701-0800	0 Screens ,security screen,aluminum frame with stainless steel cloth	SOM	1.000 Skilled Foreman 1.000 Skilled workers 1.00 Laborers 1.000 Power Tools	100.000	115.000	107.500	0.0
086	WOOD & PLASTIC WINDOWS		1.000 7 04 01 100 0		2 - 570		E
086 100	WOOD WINDOWS						10.45
086 104	AWNING WINDOW:			+			
086 104-1000	Awning window wood, vinyl clad, insulating glass, including frame, screen & trim, 900 mm x 900 mm	EA	0.125 Skilled Foreman 1.00 Carpenter 1.000 Helper 1.000 Power Tools	8.000	9.000	8.500	1.0
86 104-1500	Awning window wood, vinyl clad, insulating glass, including frame, screen & trim, 900 mm x 1.5 m			6.000	7.000	6.500	1.3
86 104-2000	Awaring window wood motal clad involution also includes form a second that it is			7.000	8.000	7.500	1,1
086 104-2200	Awning window wood, metal clad, insulating glass, including frame, screen & trim, 1.2 m			6.000	7.000	6.500	1.3
086 108	BOW-BAY WINDOW:			1	1.000	0.000	1.0
	44 18 11 12 12 12 12 12		0 125 Skilled Foreman				
086 108-1420	tnm, 1.8 m x 1.2 m, 3 panels	EA	2 000 Carpenters 1 000 Helper 2 000 Power Tools	9.000	10.000	9.500	1.7
86 108-1640	Bow-bay wood window,metal or vinyl clad,insulating glass,including frame,screen & trim, 2.7 m x 1.2 m high, 4 panels			7.500	9.000	8.250	2.1
086 120	CASEMENT WINDOW:						
86 120-0200	Casement window including frame,screen,and exterior trim,wood 610 mm x 1370 mm high,standard or insulating glazing	EA ▼	0.125 Skilled Foreman 1.00 Carpenter 1.000 Helper 1.000 Power Tools	8.000	9.000	8.500	1.00
86 120-1000	610 mm x 1830 mm	EA	0.125 Skilled Foreman 1.00 Carpenter 1.000 Helper 1.000 Power Tools	7.500	9.000	8.250	1.06
86 120-1120	Casement window, solid oak including solid oak frame, screen, exterior trim and insulating glass, 900 mm x 1.8 m high	1		6.500	7.000	6.750	1.23
86 124	DOUBLE HUNG:			1			
86 124-0200	Double hung,wood vinyl clad,including frame,screen & exterior trim,insulating glass, 915 mm x 1065 mm	EA	0.125 Skilled Foreman 1.00 Carpenter 1.000 Helper 1.000 Power Tools	9.000	10.000	9.500	0.88
86 124-1300	Double hung,wood vinyl clad,including frame,screen & exterior trim,insulating glass, 915 mm x 1.5 m		100010401000	7.500	9.000	8.250	1.06
	Double hung,wood vinyl clad,including frame,screen & exterior trim,insulating glass, 1 m x 1.8 m			7.000	8.000	7,500	1.14
86 124-1542	Double hung, solid vinyl window including frame, screen & exterior trim, including glass 1 m x 1.2 m	1		7.500	9.000	8.250	1.06
	Double hung, solid vinyl window including frame, screen & exterior trim, including glass			6.500	8.000	7.250	1.23
86 132	PICTURE WINDOW:	_ + _	l			7.255	1.69
86 132-0100	Picture window including frame and exterior trim,wood 1065 mm x 1220 mm high, standard or insulated glazing	EA	0.125 Skilled Foreman 2.000 Carpenters 1.000 Helper 2.000 Power Tools	11.000	13.000	12.000	1.45
	Picture window including frame and exterior trim, wood 1.5 m x 1.2 m high, standard or insulated glazing	T		10.000	12.000	11.000	1.60
86 132-0450	Picture window including frame and exterior trim, wood 1.8 m x 1.4 m high, standard or			9.000	10.000	9,500	1.77
ESCUMPAGE :	insulated glazing SLIDING WINDOW:	*	<u> </u>		-		
86 140-0100	Sliding window including frame, screen, and exterior trim, wood, 915 mm x 915 mm high, standard or insulated glazing	EA	0.125 Skilled Foreman 1.00 Carpenter 1.000 Helper	9.000	10.000	9.500	0.88
	Sliding window including frame, screen, and exterior trim, wood, 1.8 m x 1.5 m,	EA	1.000 Power Tools	7.500	9.000	8.250	1.06
E-E-000 (1974)	high standard or insulated glazing WOOD SASH:	1.00		7,000	(6.17.7.4)	-1000	1.00
1	The state of the s		0.125 Skilled Foreman			-	
	Wood sash,including glazing & trim, 25 mm double glazed, 1.5 m x 1.2 m high	EA	2.000 Carperters 1.000 Helper 2.000 Power Tools	3.000	3.000	3.000	5.333
But Courselle	Wood sash,including glazing & trim, 25 mm double glazed, 2 m x 1.4 m high			2.750	3.000	2.875	5.818
36 152	WOOD SCREENS:	1118 A					
6 152-0020 V	Wood screen, 20 mm frames over 0.25 M2	SQM	0.125 Skilled Foreman 2.000 Carpenters 1,000 Helper 2.000 Power Tools	30.000	35.000	32.500	0.533
	Wood screen, 30 mm frames over 0.25 M2		p)	30.000	35.000	32.500	0.533
87	HARDWARE						
37 100 F	FINISH HARDWARE						

CODE	ITEM DESCRIPTION	UNI	Т	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVERG.	AVRG. E.H.
087 103	BOLTS,FLUSH:							
087 103-0010	Bolts, flush, standard, concealed	EA		0.125 Skilled Foreman 1.000 Carpenter 1.000 Power Tools	6.500	8.000	7.250	1,23
087 103-0800	Bolts, flush, automatic fire exit				4.750	5.000	4.875	1.68
087 103-1600	Bolts,flush,for electric release			0.125 Skilled Foreman 1.000 Carpenter 0.250 Electrician 1.000 Power Tools	2.750	3.000	2.875	2.90
087 105	BUMPER PLATES:	-	_	1.000				
087 105-0100	Bumper plates, 40 mm x 20 mm, U channel	EA		0.125 Skilled Foreman 2.000 Carpenters 1.000 Helper 2.000 Power Tools	22.000	25.000	23.500	0.72
087 105-1000	Bumper plates,tear drop,spring-steel,upto 255 mm high	4	1	2.000 Fower 100S	14.000	16.000	15.000	1.143
087 108	DEADLOCKS:		_1					
087 108-1000	Deadlocks,mortise or tubular,outside key	EA		0.125 Skilled Foreman 1.000 Carpenter 1.000 Power Tools	9.000	10.000	9.500	0.889
087 110	DOORSTOPS:		7					
087 110-1300	Doorstops,wall or floor type or plunger type	EA		0,125 Skilled Foreman 1.000 Carpenter 1.000 Power Tools	22.000	25.000	23.500	0.364
087 112	ENTRANCE LOCKS:				-07			
087 112-0020	Entrance locks.cylinder,grip handle,deadbolt	EA		0.125 Skilled Foreman 1.000 Carpenter	7.500	9.000	8.250	0.000
087 114	FLOOR CHECKS:							
087 114-0010	Floor checks, for over 915mm wide doors, single or double acting	EA		0.125 Skilled Foreman 1.000 Carpenter 1.000 Power Tools	2.250	3.000	2.625	3.556
087 118	KICK PLATE:							
087 118-0010	Kick plate 150mm high, for 915mm door, stainless steel or bronze	EA		0.125 Skilled Foreman 1.000 Carpenter	14.000	16.000	15.000	0.000
087 120	LOCKSET:							
087 120-0400	Lockset standard duty,cylindrical,with sectional trim,keyed,single cylinder function	EA	1	0.125 Skilled Foreman 1,000 Carpenter 1,000 Power Tools	9.000	10.000	9.500	0.889
087 120-0420	Lockset standard duty,cylindrical,with sectional trim,keyed,single cylinder function hotel style			(10)	7.500	9.000	8.250	0.000
087 120-1700	Lockset standard duty, cylindrical for residential, interior door, average			0.125 Skilled Foreman 1.000 Carpenter	11.000	13.000	12.000	0.000
087 120-1800	Lockset standard duty, cylindrical for residential, exterior door, average				10.000	12.000	11.000	0.000
087 125	MORTISE LOCKSET:				- M			
087 125-0100	Mortise lockset, wrought knobs & full escutcheon trim, keyed, office/apartment entrance, average	EA	1	0.125 Skilled Foreman 1.000 Carpenter 1.000 Power Tools	6.500	8.000	7.250	1.231
087 125-0200	Mortise lockset, wrought knobs & full escutcheon trim, hotel, average				5.500	6.000	5.750	1.455
087 125-1000	Mortise Lockset, wrought knobs and sectional trim, non-keyed, entrance, office/apartment average				7.500	9.000	8.250	0.000
087 125-2210	Mortise Lockset, cast knobs and full escutcheon trim, non-keyed, single cylinder, hotel average	L			5.500	6.000	5.750	0.000
087 127	PANIC DEVICE:							-22511
087 127-0200	Panic device for rim locks, bar and vertical or concealed rod, exit only	EA	1	0.125 Skilled Foreman 0.000 Carpenter 0.000 Power Tools	3.750	4.000	3.875	2.133
087 127-1000	Panic device, for mortise locks.bar, exit only	"		200	3.750	4.000	3.875	0.000
087 129	PUSH - PULL:							
087 129-0010	Push-plate,pull plate,aluminum or bronze	EA	1	.125 Skilled Foreman .000 Carpenter .000 Power Tools	11.000	13,000	12.000	0.727
87 129-3000	Push plate both sides, aluminum or bronze			301	12.000	14.000	13.000	0.000
087 200	OPERATORS							
087 202	AUTOMATIC OPENERS:		_					
87 202-1000	Automatic openers, sliding doors, 915 mm wide, including track & hanger, single	OPENIN	G 1	,125 Skilled Foreman .000 Carpenters .000 Helper .000 Power Tools	0.550	1.000	0.715	29.091
87 202-1300	Automatic openers, sliding doors, 915 mm wide, including track & hanger, bi-parting		1	THE LAND LAND	0.450	1,000	(+ 	3 - 556
erthe virties (I.L15) se	Automatic openers, handicap opener, button operating		1		0.550	1.000	0.775	29.091
087 204	AUTOMATIC OPERATORS:	-	_1_		-1			Call Life Co.

NEWS T	N 08 :DOORS & WINDOWS						STATE OF	1
CODE	ITEM DESCRIPTION	UN	IT	STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVERG.	AVRG. E.H.
087 204-0200	Automatic Operators,industrial,sliding doors.to 3.6 m wide	OPEN	ing	0.125 Skilled Foreman 2.000 Carpenters 1.000 Helper 2.000 Power Tools	0.350	0.500	0.425	45.7
087 204-1000	Automatic Operators, industrial, swing doors, to 1.5 m wide	,		i.	0.650	1.000	0.825	24.6
087 206	DOOR CLOSER:							
87 206-001(Door closer,rack and pinion,adjustable backcheck,all sizes,regular or hold open arm	E		0.125 Skilled Foreman 1.000 Carpenter 1.000 Power Tools	5.500	6.000	5.750	1.45
87 206-0100	Door closer,rack and pinion,adjustable backcheck,all sizes,fusible link				6.000	7.000	6.500	1.30
87 206-4000	Door closer,backcheck.overhead concealed,all sizes,concealed arm	+			4.750	5.000	4.875	1.6
087 300	WEATHERSTRIPPING/SEALS	7.0						
087 302	ASTRAGALS:							
87 302-0400	Astragals, one piece overlapping, cadmium plated steel or aluminum, flat, 5 mm x 50 mm or 3 mm x 75 mm	LN		0.125 Skilled Foreman 1.000 Carpenter 1.000 Power Tools	25.000	29.000	27.000	0.3
87 302-1200	Astragals.one piece overlapping,Aluminum,nail on,"T" extrusion, 3 mm x 50 mm				33.000	38.000	35.500	0.2
87 302-1300	Astragals, one piece overlapping, Aluminun, vinyl bulb insert, 3 mm x 50 mm				30.000	35.000	32.500	0.26
87 302-2400	Astragals one piece overlapping. Aluminun, spring hinged security seal, with cam, 3 mm x 50 mm				20.000	23.000	21.500	0.40
87 302-2600	Astragals one piece overlappingAluminun,spring loaded locking bolt, vinyl insert, 3 mm x	\vdash			12.000	14.000	13.000	0.66
87 302-2800	50 mm	+						
	The state of the s	\vdash	-		16.000	18.000	17.000	0.50
	Astragals, one piece stile protection, extruded aluminum retainer, flush mount, pile insert	+			30.000	35.000	32.500	0.26
87 304	THRESHOLD:							
87 304-0010	Threshold 915 mm long door saddles, aluminum, bronze or rubber, average	EA		0.125 Skilled Foreman 1.000 Carpenter 1.000 Power Tools	11.000	13.000	12,000	0.72
87 306	WEATHERSTRIPPING:							
87 306-0010	Weatherstripping, window, 915 mm x 1.5 m, zinc or bronze	OPEN	NG	0.125 Skilled Foreman 1.000 Carpenter 1.000 Power Tools	6.500	7.000	6.750	1.23
87 306-0500	Weatherstripping, window, 915 mm x 1.5 m, heavy duty,zinc				4.250	5.000	4.625	1.88
87 306-1000	Weatherstripping,doors,wood frame,interlocking,for 915 mm x 2.1 m door,zinc or bronze				2.750	3.000	2.875	2.90
87 306-1300	Weatherstripping,doors,wood frame,interlocking, 1.8 m x 2.1 m				1.900	2.000	1.950	4.21
87 306-1800	Weatherstripping,doors,wood frame,spring type,bronze, 915 mm x 2.1 m door	OPEN	NG	0.125 Skilled Foreman 1.000 Carpenter 1.000 Power Tools	7.000	8.000	7.500	1.14
87 306-1900	Weatherstripping,doors,metal frame,spring type,bronze, 1.8 m x 2.1 m door	77		(11)	2.250	3.000	2.625	3.55
87 400	DOORS COMPLETE HARDWARE SET							
87 405	SINGLE LEAF DOOR:					20		
87 405-0050	Complete hardware set for interior door including 3 hinges,lockset & door closer	EA	1	0.125 Skilled Foreman 000 Carpenter 000 Power Tools	16.000	18.000	17.000	0.18
37 405-0100	Complete hardware set for fire doors including 3 hinges & panic device				11,000	13.000	12.000	0.18
7 405-0200	Complete hardware set for exterior door including 3 hinges,keyed lockset,with handle,weather stripping &exterior pull bar	П			10.000	12.000	11.000	0.20
	DOUBLE LEAF DOORS:	_	-					27,0407,5
	Complete hardware set, interior door including 6 hinges, lockset keyed with handles and floor door stop	EA	1	125 Skilled Foreman 000 Carpenter 000 Power Tools	2.000	3.000	2.500	4.00
	Complete hardware set, exterior door, including 6 hinges, lockset keyed with handle, weather stripping & one exterior pull handle bar	40		1000 Power Tools	1.000	2.000	1.500	8.00
87 500	DOOR/WINDOW ACCES.							
87 501	WINDOW GRATING:							
7 501-0100	Steel window security grating anchored to walls, @7 kg/m2.welded & painted	SQM	1	.25 Skilled Foreman .00 Skilled Worker .00 Painter .00 Laborer	23.000	26.000	24.500	0.00
87 504	DETECTION SYSTEMS See divis	ion 1	_		1			
88	GLAZING							The state of
and the Contraction of the Contr	GLASS		-					
38 108	BEVELED GLASS:	17-11-1	-					
	Beveled glass design patterns, 6 mm thick, 13 mm bevel, average	SQM	1	125 Skilled Foreman 000 Glaziers 000 Helper 000 Power Tools	11.250	13.000	12.125	1.422
		78 W		Charles and American	1			
88 112	CURTAIN WALL See divis	ion 0	89	200		1		

PROPERTY OF THE PARTY OF T	N 08 :DOORS & WINDOWS	The state of the	THE P	ODEW			5.0	AVICA
CODE	ITEM DESCRIPTION	U	INI	STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVERG.	AVRG. E.H.
088 118-0600	Float glass, 6 mm thick,clear,plain or tempered	5	sav	0.125 Skilled Foreman 2.000 Giaziers 1.000 Helper 2.000 Power Tools	11.000	13.000	12.000	1,45
088 118-1600	Float glass, 10 mm thick,clear,plain,tinted or tempered				6.500	7.000	6.750	2.46
088 118-2800	Float glass, 16 mm thick,clear,plain,tinted or tempered	9.1		ti i	3.900	4.000	3.950	4.10
088 118-3600	Float glass, 25 mm thick clear plain				2.800	3.000	2.900	5.71
088 124	GLASS BLOCK See	divisio	n O	42704	12 0000000		10000000	
088 132	INSULATING GLASS:							
088 132-0020	Insulating glass, 13 mm thick under 1.5 m2 clear or tinted	ş	SQM	0 125 Skilled Foreman 2 000 Glaziers 1 000 Helpe 2 000 Power Tools	8.250	10.000	9.125	1.939
088 132-0400	Insulating glass, 25 mm thick double glazed,6mm float 3 to 7 m2, clear or tinted		T		6.500	7.000	6.750	2.462
	Insulating glass, 25 mm thick double glazed, 6 mm float,6mm wire	-	+		6.500	7.000	6.750	2 462
	Insulating glass, heat reflective, film inside, 25 mm thick unit, clear or tinted	-			7.500	9.000	8.250	2.133
088 136	LAMINATED GLASS:		*	· · · · · · · · · · · · · · · · · · ·	7,300	0.000	0.200	F-195
	Laminted glass, clear float, 0.76 mm vinyl, 6 mm thick	s	MGS	0.125 Skilled Foreman 2.000 Glaziers 1.000 Helper 2.000 Power Tools	7.500	9.000	8.250	2.133
088 136-0100	Laminted glass, clear float, 0.76 mm vinyl, 10 mm thick				6.500	7.000	6.750	2.462
088 136-1000	Laminted glass,clear float, 2mm vinyl, 16mm thick		T		7.500	9.000	8.250	2.133
32 M.C.S. N	Laminted glass, bullet-resisting, 30 mm thick		T		1.350	2.000	1.675	11.852
	Laminted glass,bullet-resisting, 55 mm thick				1.000	2.000	1.500	16.000
088 140	V ADALIA DALIA SANDERO	division	. 1	30011	10000		1220150	10.500.50
088 144	MIRRORS:	0.110.01		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	Mirrors,no frames,wall type, 6 mm plate glass,polished edge upto 0.5 m2	s	ΩМ	0 125 Skilled Foreman 2 000 Glaziers 1 000 Helper 2 000 Power Tools	10.000	12.000	11.000	1.600
088 144-0200	Mirrors,no frames,wall type, 6 mm plate glass,polished edge over 0.5 m2				14.000	16.000	15,000	1,143
088 144-0500	Mirrors,no frames,door type, 6 mm plate glass,upto 1.20 m2				14.000	16,000	15.000	1.143
088.144-1100	Mirrors.no frames,float glass,upto 1 m2, 5 mm thick		T		14.000	16.000	15,000	1,143
088 144-2000	Mirrors, float glass 6 mm thick one way transparent		Τ		11,000	13 000	12.000	1,455
088 144-2010	Mirrors,float glass 6 mm thick bathroom,unframed,laminated			g b	14.000	16.000	15.000	1,143
088 148	OBSCURE GLASS:		•					
088 148-0010	Obscure glass, 3 mm thick,average	s	MO	0.125 Skilled Foreman 2.000 Glaziers 1.000 Heiper 2.000 Power Tools	11,000	13.000	12.000	1,455
088 148-0100	Obscure glass, 6 mm thick, average				10.000	12.000	11.000	1.600
088 152	PATTERNED GLASS:							
088 152-0010	Patterned glass colored, 3 mm thick, average	s	MQ	0.125 Skilled Foreman 2.000 Glaziers 1.000 Helper 2.000 Power Tools	11.000	13.000	12.000	1.455
088 152-0300	Patterned glass colored, 6 mm thick, average		*	· · · · · · · · · · · · · · · · · · ·	10.000	12.000	11.000	1.600
088 160	REFLECTIVE GLASS:							
088 160-0010	Reflective glass 6 mm float with fused metallic oxide, tinted	S	αм	0.125 Skilled Foreman 2.000 Glaziers 1.000 Helper 2.000 Power Tools	10.000	12.000	11.000	1.600
088 160-0500	Reflective glass 6 mm float glass with reflective applied coating				10.000	12.000	11.000	1,600
88 160-2000	Reflective glass, solar film on glass, average		+		16.000	19.000	17.500	1.000
088 164	SANDBLASTED GLASS:					1		
88 164-0100	Sandblasted glass, float glass, 5 mm thick	S	ΩМ	0.125 Skilled Foreman 2.000 Glaziers 1.000 Helper 2.000 Power Tools	11.000	13.000	12.000	1.455
BB 164-0500	Sandblasted glass, plate glass, 6 mm thick				10.000	12.000	11.000	1.600
88 164-0600	Sandblasted glass, plate glass, 10 mm thick			77♦;	6.500	7,000	8.750	2.462
088 168	SHEET GLASS:							
				0.125 Skilled Foreman 2.000 Glaziers	14,000	16,000	15.000	1.143
88 168-0010	Sheet Glass gray, 3 mm thick	S	MC	1.000 Helper 2.000 Power Tools	14,000		10.000	

CSI	N 08 :DOORS & WINDOWS			onev:				100000
CODE	ITEM DESCRIPTION	UN	IT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVERG.	AVRG. E.H.
088 172	SPANDREL GLASS:							
088 172-0010	Spandrel glass,standard color, 6 mm thick,over 200 m2	so	м	0.125 Skilled Foreman 2.000 Glaziers 1.000 Helper 2.000 Power Tools	11.000	13.000	12.000	1.45
088 172-0200	Spandrel glass, 6 mm thick,standard colors,under 200 m2				10.000	12.000	11.000	1.60
088 172-0300	Spandrel glass,ceramic,10 mm over 200 m2				9.000	10.000	9.500	1.77
088 172-2100	Spandrel glass panels,insulated,with aluminum backed fiberglass,upto 50 mm thick	11			10.000	12.000	11.000	1,60
088 176	WINDOW GLASS:	*	_		17.555			0.5000
	Window glass,clear float,stops,putty bed 6 mm thick	sq	м	0.125 Skilled Foreman 2.000 Glaziers 1.000 Helper 2.000 Power Tools	40.000	46.000	43.000	0.40
088 180	WINDOW WALL See div	rision	08	200				
088 184	WIRE GLASS:							
088 184-0010	Wire glass, 6 mm thick,rough obscure (chicken wire)	SQI		0.125 Skilled Foreman 2.000 Glaziers 1.000 Helper 2.000 Power Tools	11.000	13.000	12.000	1.45
088 184-1000	Wire glass,polished wire, 6 mm thick,diamond,clear				11.000	13.000	12.000	1.45
088 400	PLASTIC GLAZING							
088 404	PLEXIGLASS ACRYLIC:							
088 404-0200	Plexiglass Acrylic,clear,masked, 3 mm thick,full sheets	SQI		0.125 Skilled Foreman 2.000 Glaziers 1.000 Helper 2.000 Power Tools	17.000	20.000	18.500	0.94
088 404-0500	Plexiglass Acrylic,clear,masked, 6 mm thick,cut sheets				14.000	16.000	15.000	1,143
088 404-0900	Plexiglass Acrylic,clear,masked, 10 mm thick,cut sheets				13.000	15.000	14.000	1.23
088 404-1700	Plexiglass Acrylic,clear,masked, 20 mm thick,cut sheets	son	,	0.125 Skilled Foreman 2.000 Glaziers 1.000 Helper 2.000 Power Tools	10.000	12.000	11.000	1.600
088 404-2100	Plexiglass Acrylic,clear,masked, 25 mm thick,cut sheets	1	1	11	9.000	10.000	9.500	1.778
088 408	POLYCARBONATE:						989960	AASTALIS
088 408-0010	Polycarbonate clear,masked,cut sheets, 3 mm thick	SQA	,	0.125 Skilled Foreman 2.000 Glaziers 1.000 Helper 2.000 Power Tools	15.000	17.000	16.000	1.067
088 408-1000	Polycarbonate clear,masked,cut sheets, 6 mm thick	**		+	13.000	15.000	14.000	1.231
088 408-1500	Polycarbonate clear,masked,cut sheets, 10 mm thick	SQN		125 Skilled Foreman 2000 Glaziers 2000 Helper 2000 Power Tools	12.750	15.000	13.875	1.255
088 412	VINYL GLASS:	-	-	Company (1) and company (1) and company				
088 412-0500	Vinyl glass,steel mesh reinforced,stock sizes, 3 mm thick	SQN	1	125 Skilled Foreman .000 Glaziers .000 Helper .000 Power Tools	15.000	17.000	16.000	1.067
088 412-1000	Vinyl glass,steel mesh reinforced, 6 mm thick	1	1		13.000	15.000	14.000	1.231
089	GLAZED CURTAIN WALL				4			
089 200	GLAZED CURTAIN WALL							
089 202	CURTAIN WALLS:							
89 202-0050	Curtain walls, Aluminum, single glazed, upto 10 floors, average	SQM	1	.125 Skilled Foreman .000 Glaziers .000 Helper .000 Power Tools	9.500	11.000	10.250	1.684
89 202-0150	Curtain walls, Aluminum, double glazed, up to 10 floors, average		Ť		8.500	10.000	9.250	1.882
89 202-0200	Curtain walls, Aluminum, single glazed, upto 10 floors, curved, average				6.500	7.000	6.750	2.462
89 202-0300	Curtain walls, Aluminum, double glazed, curved wall, upto 10 floors, average				5.500	6.000	5.750	2,909
89 202-0400	Curtain walls, Aluminum, single glazed, more than 10 floors building, average		1		3.750	4.000	3.875	4.267
89 202-0500	Curtain walls, Aluminum, double glazed, more than 10 floors building, average		1		2.900	3.000	2.950	5.517
89 202-1000	Curtain walls, Stainless steel, single glazed, upto 12 m high, average				7.500	9,000	8.250	2.133
89 202-1200	Curtain walls, Stainless steel, double glazed, upto 12 m high, average	+			7.000	8.000	7.500	2.286
	TUBE FRAMING:		- 17					
	Tube framing for window walls and store fronts aluminum plain tube frame, mill		12	125 Skilled Foreman 000 Glaziers				0.550
	finish, 45 mm x 45 mm	SQM	1	000 Helper 000 Power Tools	29.000	33.000	31.000	0.552

DIAIDIO	N 08 :DOORS & WINDOWS	BB	AND DESCRIPTION OF THE PERSON				
CSI	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVERG.	AVRG. E.H.
089 204-0250	Tube framing, for window walls and store fronts, aluminum plain tube frame, mill finish, 50 mm x 150 mm			24.000	28.000	26.000	0.667
089 204-0450	Tube framing,glass bead			70.000	81.000	75.500	0.229
089 204-1000	Tube framing,flush tube mill finish, for 6 mm glass, 45 mm x100mm,open header			22.000	25.000	23.500	0.727
089 204-1050	Tube framing,flush tube mill finish,for 6 mm glass, 45 mmx100mm,open sill	1		23.000	26.000	24.500	0.696
089 204-1150	Tube framing,flush tube mill finish,for 6 mm glass, 45 mm x100 mm,closed back sill			24,000	28.000	26.000	0.667
089 204-1200	Tube framing,flush tube mill finish,for 6 mm glass, 45mm x100mm,vertical mullion two piece			21.000	24.000	22.500	0.762
089 204-2000	Tube framing, flush tube frame, mill finish, 50 mm x 115 mm, open header			21.500	25.000	23.250	0.744
089 204-5000	Tube framing,flush tube mill finish, 55 mm x 115 mm,open sill			22.000	25.000	23.500	0.727
089 206	WINDOW WALLS:	- N/					
089 206-0050	Window walls, aluminum, stock, including glazing average	SOM	0.125 Skilled Foreman 2.000 Glaziers 1.000 Helper 2.000 Power Tools	9.000	10.000	9.500	1.778
089 206-0100	Acoustical window wall, aluminum, double glazed 25 mm thick, 50 mm x 115 mm framing for airports	- Sin	•	3.000	4.000	3.500	5.333

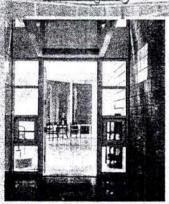
Division 9 Finishing

MUROSTONE TECH. LTD.

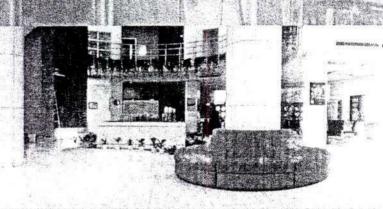


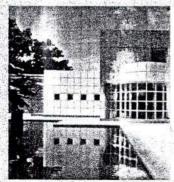






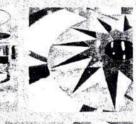




















SURFACES FOR THE NEW MILLENNIUM

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ص.ب ١٨٨١لرياض ١١٤٦١ الملكة العربية السعودية

Division 9.. Finishing..

Estimating Tips: 092 Lath, Plaster & Gypsum Board:

Lath is estimated by the square meter for both gypsum and metal lath, plus usually 5% allowance for waste. Furring, channels and accessories are measured by the linear meter. Plaster is also estimated by square meter.

Deduction for openings vary by preference, from zero deduction to 50% of all openings over 60 centimeters. Many plastering contractors make no deduction for openings. The estimator should allow one extra square meter for each linear meter of horizontal interior or exterior angle located below the ceiling level. Also, double the areas of small radius work.

Metal lath cost and productivity vary according to complexity of work, location, room sizes, height above floor and method of attachments whether nails or tie-on. Plaster coverage area depends usually on mechanic application system, thickness of grounds, surface, type of lath, and quality of sand.

Each room should be measured, perimeter times maximum wall height. Ceiling areas are equal to length times width. Drywall, accessories, studs, track, and acoustical caulking are all measured by the square meter.

093 Tile. 094 Terrazzo:

Two basic methods of installation are used.

Mud set is more expensive than the thin set. In terrazzo work, be sure to include the linear metrage of embedded decorative strips, grounds, machine rubbing and power clean-up. Add for material handling and labor distribution in high-rise buildings.

095 Acoustical System:

Acoustical systems fall into several categories.

The take-off of these materials is by the square meter of area with a 5% allowance for waste. Do not forget about scaffolding, if applicable, when estimating these systems.

096 Flooring & Carpet:

Most of the various types of flooring are all measured on square meter basis. base is measured by linear meter. If adhesive materials are to be quantified, they are estimated at a specific coverage rate by the gallon depending upon the specified type and the manufacturer's recommendations.

099 Painting & Wall Coverings:

Painting is one area where bids vary to a greater extent than almost any other section of a project. This arises from the many methods of measuring surfaces to be painted. Estimators shall never forget to include the protection of all adjacent surfaces in estimated costs and productivity.

When considering the method of paint application,

an important factor is the amount of protection and masking required. These must be estimated separately and may be the determining factor in choosing the method of application. Scaffolding and ladders shall be estimated.

CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG	AVRG. E. H.
091	METAL SUPPORT SYSTEM	M 142			etsatis.		
091 300	SUSPENSION SYSTEMS					facility (de	
091 304	SUSPENSION SYSTEMS:						
091 304-0050	Suspension systems for boards and tile,, T bar,610 mm x 1220 mm grld	SQM	0.125 Labor Foreman 1.000 Carpenter 1.000 Helper	55.000	63.000	59.000	0.145
091 304-0300	Suspension systems for boards and tile, T bar, 610 mm x 610 mm grid			45.000	52.000	48.500	0.178
091 304-0400	Suspension systems for boards and tile, concealed Z bar, 300 mm module.			40.000	46.000	43.000	0.200
STATE OF THE STATE	Suspension systems for boards and tile, 38 mm carrier channels, 1220 mm O.C, add	1		40.000	46.000	43.000	0.200
092	LATH,PLASTER & GYPSUM BOARD						
092 050	FURRING & LATHING						
092 052	ACCESSORIES,PLASTER:		- 17 L				
	Accessories plaster, casing bead, expanded flange, galvanized or zinc alloy	LM	0.125 Labor Foreman 1.000 Lather 1.000 Power Tools	80.000	92.000	86.000	0.100
092 052-0620	Accessories plaster,corner bead,expanded bullnose, 20 mm radius,galvanized			75,000	86.000	80.500	0.107
	Accessories plaster, corner bead, expanded bullnose, 20 mm radius, zinc alloy			80.000	92.000	86.000	0.100
	Accessories plaster inside corner bead, 20 mm, 76 mm, 76 mm, painted		1	75.000	86.000	80.500	0.107
092 054	FURRING:			The comment			Section 2
	Furring beams & columns, 20 mm channels, galvanized, 400 mm O.C	SQM	0.125 Labor Foreman 1.000 Lather 1.000 Helper 1.000 Power Tools	23.000	26.000	24.500	0.348
092 054-0300	Furring ceilings, on steel 20 mm channels, galvanized 400 mm O.C.			32.000	37.000	34.500	0.250
092 054-0600	Furring ceilings on steel 38 mm channels galvanized 300 mm O.C.			21,000	24.000	22.500	0.381
	Furring ceillings,on steel 38 mm channels,galvanized 610 mm O.C.			64.000	74.000	69.000	0.125
	Furring walls, 20 mm channels,galvanized, 400 mm O.C.			30.000	35.000	32.500	0.267
	Furring walls, 20 mm channels,galvanized, 610 mm O.C.			45.000	52.000	48.500	0.178
	Furring walls, 38 mm channels,galvanized, 300 mm O.C.			24.000	28.000	26.000	0.333
092 054-1800	Furring walls, 38 mm channels,galvanized, 610 mm O.C.			48.000	55.000	51.500	0.167
092 054-8000	Furring suspended ceilings,including 38mm carriers, 610 mm O.C.			15.380	18.000	16.690	0.520
092 054-8400	with 20 mm channels, 400 mm O.C. Furring suspended ceilings including 38 mm carriers, 610 mm O.C. with 38 mm channels, 400 mm O.C.			13.330	15.000	14.165	0.600
092 054-8720	Furring suspended ceilings, including 50 mm carriers, 610 mm O.C. with 20 mm channels, 610 mm O.C.			18.000	21.000	19.500	0,444
092 054-8800	Furring suspended ceilings,including 50 mm carriers, 610 mm O.C.			13.460	15.000	14.230	0.594
092 056	with 38 mm channels, 400 mm O.C. GYPSUM LATH:		<u> </u>				
	Gypsum lath, plain or perforated,clipped to steel studs, 10 mm thick	SQM	0.125 Labor Foreman 1.000 Lather 1.000 Helper 1.000 Power Tools	90.000	104.000	97.000	0.089
092 056-0400	Gypsum lath, plain or perforated, clipped to steel studs, 13 mm thick			83.250	96.000	89.625	0.096
092 056-1500	Gypsum lath,for ceiling installations, 13 mm thick			67.500	78.000	72.750	0.119
092 056-1600	Gypsum lath, for columns and beams, 13 mm thick			60.750	70.000	65.375	0.13
092 058	METAL LATH:						
092 058-3600	Metal lath, 1.13 kg diamond painted, on wood framing, on walls	SOM	0.125 Labor Foremen 2.000 Lather 1.000 Helper 1.000 Power Tools	180.000	207.000	193.500	0.04
092 058-3400	Metal lath, 1.54 kg diamond painted, on wood framing, on ceilings			153.000	176.000	164.500	0.05.
092 058-4200	Metal lath, 1.54 kg diamond painted or rib, wired to steel framing, on walls			165.000	190.000	177.500	0.04
092 058-4300	Metal lath, 1.54 kg diamond painted, wired to steel framing, on ceilings			140.000	161.000	150,500	0.05
092 058-4500	Metal lath, 1.54 kg diamond painted on columns and beams, wired to steel			82.00	94.000	88.000	0.09
092 058-4600	Metal lath, 1.54 kg diamond painted on cornices, wired to steel		1 X 11	68.00	78.000	73.000	0.11
092 058-4800	Metal lath, 1.13 kg diamond painted on screwed to steel studs			170.00	196 000	183,000	0.04
092 058-5100	Metal lath, rib lath, painted, wired to steel, on walls, 1.25 kg			158.00	152 (YF)	170.0%	0.5
092 058-5400	Metal lath,rib lath,painted, wired to steel on walls, 1.81 kg			145.00	าย" มา	155,000	1.5
092 058-5700	Suspended ceiling system, including 1.54 kg diamond lath, painted or galvanized			25.60	29.000	27.300	0.31
092 058-6300	Hollow metal stud partitions including 1.54 kg painted lath both sides non-load bearing.			36.30	42.000	39.150	0.22

CSI	ITEM DESCRIPTION	UNI	CREW	D. O. MIN.	D. O. MAX.	D. O.	AVRG.
	Hollow metal stud partitions,including 1.54 kg painted lath both sides,non-load bearing.		STRUCTURE	10.0.1	D. C. MIAX.	AVRG	E. H.
092 058-670	25 ga. with rib lath studs 100 mm at 400 mm O.C.			35.100	40.000	37.550	0.2
092 058-700	Hollow metal stud partitions, including 1.54 kg painted lath both sides, non-load bearing, 25 ga, with rib lath studs 150 mm at 400 mm O.C.	1		34.400	40.000	37.200	0.2
092 058-710	Hollow metal stud partitions, including 1.54 kg painted lath both sides, non-load bearing, 25 ga. with rib lath studs 150 mm at 610 mm O.C.	SOM	0.125 Labor Foreman 2.000 Lather 1.000 Helper 1.000 Power Tools	39.300	45.000	42.150	0.20
092 058-720	Load bearing partitions, 16 ga., with rib lath, 100 mm studs, 400 mm O.C.	T	1.000 F0W61 1008	23.400	27.000	25.200	0.34
092 058-760	A Company of the Comp	100		22.900	26,000	24.450	0.34
092 100	GYPSUM PLASTER			1		200	0.0
092 102	CEMENT PLASTER:	755		1			
092 102-015	Cement plaster,splash coat on exterior concrete or masonry walls	SOM	0.125 Foreman 1.000 Plasterer 1.000 Common Laborer 0.500 Mixer 0.17 m3 1.000 Tools Set 1.000 Scatolding set	90.000	104.000	97.000	0.22
092 102-020	Cement plaster, splash coat on interior concrete or masonry walls			80.000	92.000	86.000	0.25
092 102-022	Cement plaster, brown coat, on interior concrete or masonry walls			50.000	58.000	54.000	0.40
092 102-025	Cement plaster,float finish coat,on interior concrete or masonry walls			35.000	40.000	37.500	0.57
092 102-028	Cement plaster,trowel finish coat,on exterior concrete walls & columns			25.000	29.000	27.000	0.80
092 102-030	Cement plaster, finish coat, on interior concrete walls & columns			24.380	28.000	26.190	0.82
092 102-040	Cement plaster accessories			150.000	173.000	161.500	0.13
092 102-050	Cement plaster on exterior concrete or masonry walls, 3 coats including accessories			13.490	16.000	14.745	1.483
092 102-0600	Cement plaster on interior concrete or masonry walls, 3 coats including accessories			11.740	14.000	12.870	1.70
092 102-0700	Cement plaster on concrete ceilings, 3 coats including accessories			11,150	13.000	12.075	1.79
092 102-0800	Cement plaster on concrete columns and beams, 3 coats including accessories		1 1	8.800	10.000	9.400	2.273
092 108	GYPSUM PLASTER:		A				2,000
092 108-0300	Gypsum plaster, 2 coats, no lath included, on walls	sam	0.125 Foreman 3.000 Plasterer 2.000 Common Laborer 0.500 Mixer 0.17 m3 2.000 Tools Set 1.000 Scafolding set	65.880	76.000	70.940	0.425
092 108-0400	Gypsum plaster, 2 coats, no lath included, on ceilings			57.640	66.000	61.820	0.486
92 108-0600	Gypsum plaster, 2 coats on and including 10 mm gypsum lath on steel, on walls			58.300	67.000	62.650	0.549
92 108-0700	Gypsum plaster, 2 coats on and including 10 mm gypsum lath on steel, on cellings			49.560	57.000	53.280	0.646
92 108-0900	Gypsum plaster, 3 coats, no lath included,on walls			56.400	65.000	60.700	0.567
92 108-1000	Gypsum plaster, 3 coats, no lath included,on ceilings			49.340	57.000	53.170	0.649
92 108-1200	Gypsum plaster, 3 coats and including painted metal lath,on wood studs			50.330	58.000	54.165	0.636
92 108-1300	Gypsum plaster, 3 coats, including painted metal lath,on ceilings			44.000	51.000	47.500	0.727
92 108-1600	Gypsum plaster, 3 coats, including painted metal lath,on irregular or curved surfaces			38.000	44.000	41.000	0.842
92 108-1800	Gypsum plaster, 3 coats, including painted metal lath,on columns and beams	1		36.650	42.000	39.325	0.873
92 116	PERLITE OR VERMICULITE PLASTER:			1			
92 116-1200	Perlite or vermiculite plaster, 3 coats,including painted metal lath,on metal studs	SQM	0.125 Foreman 3.000 Plasterer 2.000 Common Laborer 0.500 Mixer 0.17 m3 2.000 Tools Set 1.000 Scafolding set	57.600	66.000	61.800	0.556
	Perlite or vermiculite plaster, 3 coats, including suspended metal lath ceilings			38.500	44.000	41.250	0.831
92 116-1700	Perlite or vermiculite plaster, 3 coats,including painted metal lath on irregular or curved surfaces			33.300	38.000	35.650	0.961
92 116-1800	Perlite or vermiculite plaster, 3 coats,including painted metal lath on columns and beams.	\top		32.000	39.000	35.500	1.000
92 300	AGGREGATE COATINGS					00.000	1,000
92 304	STUCCO:			1		-	
	Stucco, 3 coats 25 mm thick,float finish,on masonry or	SQM	0.125 Foremen 3,000 Plasterer 2,000 Common Laborer	32.300	37.000	34.650	0.991
	concrete construction,no mesh included	SUM	0.500 Mixer 0.17 m3 2.000 Tools Set 1.000 Scatolding set			01.000	

CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG	AVRG. E. H.
092 602	BLUEBOARD:		N/				
092 602-1100	Blueboard, 10 mm thick, on walls or ceilings, standard, with thin coat plaster finish	SQM	0.125 Labor Foreman 2.000 Finishing Carpenters 1.000 Common Laborer 1.000 Power Tool	85.000	68.000	76.500	0.094
092 602-1450	Blueboard, 10 mm thick, on beams, columns, or soffits, standard, with thin coat plaster finish			52.000	60.000	56.000	0.154
092 602-3100	Blueboard, 13 mm thick on walls or ceilings standard with thin coat plaster finish	+		85.000	98.000	91.500	0.09
092 602-3400	Blueboard, 13 mm thick on walls or ceilings, fire resistant, with thin coat plaster finish	SQM	0.125 Labor Foreman 2.000 Firishing Carpenters 1.000 Common Laborer 1.000 Power Tool	85.000	98.000	91.500	0.09-
092 602-3800	Blueboard, 13 mm thick,on beams,columns,or soffits,fire resistant, with thin coat plaster finish			52.000	60.000	56.000	0,15
092 602-5100	Blueboard, 16 mm thick,on walls or ceilings fire resistant with thin coat plaster finish			72.000	83.000	77.500	0.11
092 602-5600	Blueboard, 16 mm thick,on beams,columns or soffits,fire resistant, with thin coat plaster			58.000	67.000	62.500	0.138
TALES TARREST THE SECOND	finish Blueboard,for high ceilings,over 2.4 m high add			160.000	184.000	172.000	0.056
	Blueboard, for over 3 stories high, add/story			200,000	230.000	215.000	0.040
092 604	CEILINGS:		1 	200.000	250.000	270.000	0.00
092 604-0100	Cellings,gypsum drywall,fire rated,finished,screwed to grid channel or joists, 13 mm or 16 mm thick	SQM	0.125 Labor Foreman 2.000 Finishing Carpenters 1.000 Common Laborer 1.000 Power Tool	78.000	90.000	84.000	0.103
092 604-0300	Ceilings,gypsum drywall,fire rated,finished,screwed to grid channel or joists, over 2.4 m high, 13 mm or 16 mm thick			72.000	83.000	77.500	0,111
092 604-0800	Ceilings.grid suspension system,direct hung, 3.8 mm or 90 mm cold rolled channel, with 22 mm hi hat furring channel, 610 mm O C.			36.000	41.000	38.500	0.22
092 608	DRYWALL:						
092 608-0150	Drywall,gypsum plasterboard,nailed or screwed, 10 mm thick, on stud walls,standard taped and finished, paint not included	SQM	0.125 Labor Foreman 2.000 Finishing Carpenters 1.000 Common Laborer 1.000 Power Tool	85.000	98.000	91.500	0.094
092 608-0300	Drywall,gypsum plasterboard,nailed or screwed. 13 mm thick,on stud walls,standard,fire resistant or water resistant, taped and finished, paint not included			85.000	98.000	91.500	0.09-
092 608-1000	Drywall,gypsum plasterboard,nailed or screwed. 13 mm thick on ceilings,standard,fire resistant or water resistant, taped and finished, paint not included.			78.000	90.000	84 000	0.103
092 608-1550	Drywali,gypsum plasterboard.nailed or screwed, 13 mm thick,on beams,columns,or soffits,standard,fire resistant or water resistant, taped and finished, paint not included.			52.000	60.000	56.000	0.15
092 608-2000	Drywall,gypsum plasterboard,nailed or screwed, 16 mm thick,on stud walls,standard,fire resistant or water resistant, taped and finished, paint not included.			78.800	91.000	84.900	0.10
092 608-3000	Drywall.gypsum plasterboard.nailed or screwed, 16 mm thick,on stud ceiling,standard,fire resistant or water resistant, taped and finished, paint not included.			72.000	83.000	77.500	0.11
092 608-4000	Drywall fireproofing beam or columns, 2 layers, 13 mm thick, including finish, paint not included.			24.750	28.000	26.375	0.32
092 608-4050	Drywall fireproofing beam or columns, 2 layers, 16 mm thick, including finish, paint not			23.000	26,000	24.500	0.34
092 608-4150	included. Drywall fireproofing beam or columns, 3 layers, 16 mm thick, including			15.250	18.000	16.625	0.52
092 608-5050	finish, paint not included Drywall,for 25 mm thick coreboard on columns, paint not included			39.000	45.000	42.000	0.20
	Drwall, for foil-backed board, add			78.800	91.000	84:900	0.10
	Drywall, for high ceilings, over 2.4 m high add	9		300.000	345.000	322.500	0.02
092 608-5270				172.000	198.000	185.000	0.04
	Drwall, for over 3 stories high,add/story			550.000	633.000	591.500	0.01
	Drwall, for finishing corners, inside or outside, add			1125.000	1294.000	1209.500	0.00
	Drywall, for acoustical sealant, add/bead			506.000	582.000	544.000	0.01
	Drywall, sound deadening board, 6 mm gypsum or 13 mm wood fiber	-		160,000	184.000	172.000	0.05
092 612	METAL STUDS, DRYWALL: Partitions, 3m high, with runners, See						
	also studding,division 051-230 Metal studs,drywall,non-load bearing,galvanized upto 20 ga., 40 mm, 400 mm O.C.	SQM	0.125 Labor Foreman 2.000 Finishing Carpenters 1.000 Common Laborer	95:500	110.000	102.750	0.68
002 812 2100	Metal studs.drywall.non-load bearing.galvanized upto 20 ga., 40 mm, 610 mm O.C.	-	1,000 Power Tool	113.100	131 600	127 (50	0
092 612-2100	Metal studs,drywall,non-load bearing,galvanized upto 20 ga., 64 mm,wide, 400 mm			93.100	5.07.57.51.67.67	100.050	0.08
	O.C. Metal studs,drywall,non-load bearing,galvanized upto 20 ga., 100 mm, wide, 400 mm.			89.200	Tau-	96.100	0.09

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CODE	ITEM DESCRIPTION	UNIT		CTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG	AVRG. E. H.
092 612-2450	Metal studs,drywall,non-load bearing,galvanized upto 20 ga., 100 mm, wide, 610 mm	Ħ			105.300	121.000	113.150	0.07
092 612-2500	Metal studs,drywall,non-load bearing,galvanized upto 20 ga., 150 mm,wide, 400 mm O.C.				87.000	100.000	93.500	0.0
092 612-2550	Metal studs,drywall,non-load bearing,galvanized upto 20 ga., 150 mm wide, 610 mm O.C.	\Box			103.200	119.000	111.100	0.0
92 612-4000	Load bearing metal studs, structural, galvanized, 18 ga., 64 mm, 400 mm O.C.	+			69.800	80.000	74.900	0.1
	Load bearing metal studs,structural,galvanized,18 ga., 100 mm, wide, 400 mm O.C.	+			66.900	77.000	71.950	0.1
	Load bearing metal studs, structural, galvanized, 18 ga., 150 mm, wide, 610 mm O.C.	Ħ	†		77.400	89.000	83.200	0.1
	Load bearing metal studs,structural,galvanized, 16 ga., 64 mm, wide, 400 mm O.C.	†	1		58.200	67.000	62.600	0.1
private and the second	Load bearing metal studs,structural,galvanized,16 ga., 100 mm, wide, 400 mm O.C.				55.700	64.000	59.850	0.1
992 612-4850	Load bearing metal studs,structural,galvanized,16 ga., 100 mm, wide, 610 mm O.C.	SQM	0.125 Labor Fo 2.000 Finishing 1.000 Common 1.000 Power To	Carpenters Laborer	65.800	76.000	70.900	0.12
92 612-4900	Load bearing metal studs, structural, galvanized, 16 ga., 150 mm, wide, 400 mm O.C.				54.400	63.000	58.700	0.1
92 620	PARTITION WALL:		1					
92 620-0500	Interior partition wall, 2.4 to 3.7 m high, including wood studs, 50 mm x 100 mm at 400 O.C., 13 mm standard, fire resistant or water resistant gypsum drywall both sides, taped & finished	SQM	0.125 Labor Fo 2.000 Finishing 1.000 Common 1.000 Power To	Carpenters Laborer	27.800	32.000	29.900	0.28
92 620-1600	Interior partition wall, 2.4 to 3.7 m high,including metal studs,NLB, 25 ga., at 400 O.C., 92 mm wide, 13 mm,standard,fire resistant or water resistant gypsum drywall both sides, taped & finished				29.100	33.000	31.050	0.27
92 620-2400	Interior partition wall, 2.4 to 3.7 m high,including metal studs, NLB, 25 ga.,at 400 O.C., 150 mm wide, 2 layers of 16 mm,fire resistant or water resistant gypsum drywall 2 hr.rating both sides, taped & finished.				17.150	20.000	18.575	0.46
92 620-3400	Interior partition wall, 2.4 to 3.7m high,including wood studs 50 x 100 mm., at 400 O.C., 2 layers of 16 mm,fire resistant or water resistant gypsum drywall 2 hr.rating both sides, taped & finished				16.970	20.000	18.485	0.47
92 620-3600	Interior partition wall, 2.4 to 3.7 m high,including metal studs,NLB, 25 ga., at 400 O.C., 92 mm wide, 2 layers of 16mm,fire resistant or water resistant gypsum drywall 2 hr. rating, both sides, taped & finished				17.470	20.000	18.735	0.4
	Interior partition wall, 2.4 to 3.7 m high,including metal studs,NLB, 25 ga., at 400 O.C., 150 mm wide, 2 layers of 16mm,fire resistant or water resistant gypsum drywall 2 hr.rating both sides, taped & finished				17.320	20.000	18.660	0.46
	Interior partition wall, 2.4 to 3.7 m high, including NLB metal studs at 610 O.C., 92 mm wide, 16 mm standard, fire resistant or water resistant gypsum drywall both sides, taped & finished				31.200	36.000	33.600	0.25
92 620-5800	Interior partition wall, 2.4 to 3.7 m high,including metal studs,NLB, 25 ga., at 610 mm O.C., 92mm wide and 2 layers of 16 mm gypsum drywall,water & fire resistant,both sides,taped and finished				17.870	21.000	19.435	0.44
92 620-9500	Interior partition wall, 2.4 to 3.7 m high,including metal studs,LB, 25 ga., at 400 mm O.C., 150 mm wide and 3 layers of 16 mm gypsum drywall, 3 hrs fire resistant,both sides,taped and finished		↓		11.800	14.000	12.900	0.67
93	TILE							
93 100	CERAMIC TILE							
93 102	CERAMIC TILES :							
33 102-0010	Ceramic tile base 300 mm x 100 mm high, mud set	LM	0.125 Foreman 1.000 Tile Layer 1.000 Tile Layer 1.000 Tools Set		20.000	23.000	21.500	0.40
93 102-0100	Ceramic tile base 300 mm x 100 mm high, thin set				30.000	35.000	32.500	0.26
3 102-0900	Ceramic tile cove base 150 mm x 100 mm high, mud set				22.000	25.000	23.500	0.36
	Ceramic tile cove base 150 mm x 150 mm high, mud set	•			22.000	25.000	23.500	0.36
	Ceramic tile on bathtub, 1.5 m long,100 mm x 100 mm tile wainscott, adheasive set,1.8 m high	EA			3.300	4.000	3.650	2.42
3 102-2400	Ceramic bullnose trim, 100 mm x 100 mm, mud set	LM		V-2235/00-	20.000	23.000	21.500	0.40
3 102-5100	Ceramic sheet,floor,unglazed,with adhesive	SQM			12,000	14.000	13.000	0.66
3 102-5400	Ceramic tile interior wall, with dry thin set morter 100 x 100 mm glazed				8.900	10.000	9.450	0.89
3 102-5700	Ceramic tile interior wall, with thin set 200 x 100 mm glazed				9.000	10.000	9.500	0.88
3 102-5800	Ceramic tile interior wall, with thin set 150 x 150 mm glazed				9.100	10.000	9.550	0.87
3 102-5810	Ceramic tile interior wall, with thin set 200 x 200 mm glazed				9.330	11.000	10.165	0.85
3 102-5830	Ceramic tile interior wall, with thin set 400 x 400 mm glazed				20.000	23.000	21.500	0.40
	Ceramic tile interior or exterior wall, set with portland cement mortar "conventional method" 100 x 100 mm glazed			0.5	7.330	8.000	7.665	1.09
3 102-5860	Ceramic tile interior or exterior wall, set with portland cement mortar 200 x 100 mm plazed				7.440	9.000	8.220	1.07
	Deramic tile interior or exterior wall, set with portland cement mortar 150 x 150 mm				5-70-	-10-11-1-1-5	and the second second	

CSI CODE	I 09: FINISHES	UNI	т	CRE'	L). O. MIN.	D. O. MAX.	D. O. AVRG	AVRG. E. H.
HA VIMONIA	Ceramic tile interior or exterior wall, set with portland cement mortar 200 x 200 mm	T	1			7.700	9.000	8.350	1.039
5 102-56601	glazed Ceramic tile interior or exterior wall,set with portland cement mortar 300 x 300 mm		+			13.550	16.000	14.775	0.590
3 102-2030	glazed Ceramic tile interior or exterior wall, set with portland cement mortar 400 x 400 mm	+	+			16.500	19,000	17.750	0.485
3 102-5900	glazed	+	+			150.000	173.000	161.500	0.053
3 102-7000	For epoxy grout,2mm joints, 108 mm tile, add	*	-	•					
3 300	QUARRY TILE								
33 304	QUARRY TILE:		To.	125 Foreman					
3 304-0010	Quarry tile,base,cove or sanitary 50 mm or 127 mm high,mortar set,13 mm thick	so	M 1	000 Tile Layer 000 Tile Layer 000 Tools Set		20.000	23.000	21.500	0.400
2 204-0700	Quarry tile, floors, mortar set 100 x 100 x 13 mm thick					6.200	7.000	6.600	1,29
	Quarry tile, floors, mortar set 100 x 200 x 13 mm thick					7,700	9.000	8.350	1.03
93 500	GLASS MOSAICS			China Per La					
93 500	GLASS MOSAICS:								
	Glass mosaics 20 mm tile on 300 mm sheets standard grout	sc	2M 1	.000 Tile Laye .000 Tools Set	r Helper	5.000	6.000	5.500	1.60
93 501-0700	Glass mosaics 20 mm tile on 300 mm sheets, standard grout color golds, silvers & specialties		-		NO 1	4.000	5.000	4.500	2.00
93 700	METAL TILE								
93 701	METAL TILE:	_			New York Co.				
93 701-001	Metal tile 1220 x 1220 mm sheet, 24 ga., tile pattern,nailed stainless steel or aluminized steel	S	OM :	0 125 Labor Fo 2 000 Finishing 1 000 Common 1 000 Power To	Carpenters Laborer	31.50	36.000	33.750	0.25
93 900	TILE SETTING MATERIALS								
93 910	CEMENTITOUS BACKBOARD:								
	Commentitious backerboard.on floor 0.9 m x 1.80 m x 16 mm sheets	s	QM	0.125 Labor Fo 2.000 Finishing 1.000 Common 1.000 Power T	Carpenters Laborer	36.00	0 41.000	38.500	0.2
	50 Cementitous backerboard,on wall 0.9 m x 1.2 m x 13 mm sheets					24.00	0 28.000	26.000	0.3
	Comentitous backerboard,on counter 0.9 m x 1.80 m x 16 mm sheets					16.00	0 18.000	17.000	0.5
	TERRAZZO			- 15	K. S. L.		ON STATE	THE REAL PROPERTY.	
094	PORTLAND CEMENT TERRAZZO								
	TERRAZZO,CAST IN PLACE (C.I.P)								
094 104	10 Terrazzo,C.I.P,cove base,150 mm high,16 ga.,zinc		LM	0.250 Forema 2.000 Terrazzo 3.00 Terrazzo 0.250 Terrazz 1.000 Hodoar 0.500 Hand N	o Workers Helper o Mixer 0.28 m3 rier	30.0	34.00	32.000	0.4
	2 I D and 450 mm high and 150 mm wide	+	T			6.0	7.00	6.500	2.3
	OO Terrazzo,C.I.P.curb, 150 mm high and 150 mm wide Terrazzo,divider strip for floors, 14 ga., 32 mm deep,zinc or brass			0.125 Labor I 1.000 Tite La 1.000 Helper 1.000 Tools S	yer	120.0	138.00	129.000	0.0
	Terrazzo, divider strip for floors, heavy top strip 6mm thick, 32 mm deep, zinc or	+	1	1.000 1008	,,	96.0	00 110.00	0 103.00	0.
094 104-06	galvanized bottoms,brass Terrazzo C.I.P. floor.bonded to concrete 40 mm thick,gray or white cement morter set,		som	1.000 Hodea 0.250 Tools	zo Workers zo Heiper zo Grinder zo Mixer 0.28 m rrier Set	3 17.9	00 21.00	0 19.45	0 1.
	Terrazzo, C.I.P., floor, not -bonded to concrete 75 mm thick, gray or white cement morte		1	0.500 Hand I	Metal Note:	16.7	00 19.0	00 17.85	0 1
094 104-18	set, 1.2 meter squares. Terrazzo C.I.P. floor.not -bonded to concrete 75 mm thick,gray or white cement morte		+			17.			-
094 104-1	set, 1.5 meter squares. Terrazzo, C.I.P., floor, not -bonded to concrete 75 mm thick, gray or white cement morte		+	1		15.	100 18.0	00 16.70	0 1
094 104-1	set, 0.90 meter squares.	-	1	-		-	950 10.0	0 94	5 2
Part of the Control o	200 For heavy duty abasive terrazzo, add	+	-	-	-	12.			
	400 Terrazzo, floor, C.I.P., bonded conductive for hospitals		_		+		070 100	4	
094 104-2	Terrazzo,floor, C.I.P., floor, epoxy, 6 mm thick, average Terrazzo stairs, cast in place, pan filled treads.	-	LM	-	-	_	000 17.0		

CSI	ITEM DESCRIPTION	UNI	CREW	D. O. MIN.	D. O. MAX.	D. O. AVRG	AVRG. E. H.
094 104-4200	C.LP. Terrazzo,wainscot,epoxy 6 mm thick	-	3.1103.10112	6.280	7.000	6.640	2.86
094 200	PRECAST TERRAZZO	н	-	0.200	7.000	6,640	2.00
094 201	TERRAZZO,PRECAST:						
	Terrazzo,precast,base, 150 mm high,straight	LM	0.125 Labor Foreman 1.000 Tile Layer 1.000 Helper 1.000 Tools Set	20.000	23.000	21.500	0.40
094 201-0200	Terrazzo,precast,cove, 150 mm high	T	1,000 1005 561	17.000	20.000	18.500	0.47
094 201-0400	Terrazzo,precast,cove, 200 mm high	11		17.000	20.000	18.500	0.47
094 201-1000	Terrazzo,curbs, 200 mm x 200 mm high	11	11	8.500	10.000	9.250	0.94
094 201-1200	Terrazzo,floor tiles,non-slip 25 mm thick, 300 mmx 300 mm	SOM	0.125 Foreman 3.000 Tile Layer 2.000 Tile Layer Helper 0.125 Equip. Operator 0.125 Crane 11 Ton 2.000 Tools Set 1.000 Grinding Machine	16.300	19.000	17.650	1.534
094 201-1300	Terrazzo,floor tiles,non-slip 30 mm thick, 300 mm x 300 mm	1	—	16.300	19.000	17.650	1.534
094 201-1500	Terrazzo,floor tiles,non-slip 30 mm thick,400 mm x 400 mm	SQM	0.125 Foreman 3.000 Tile Layer 2.000 Tile Layer Helper 0.125 Equip. Operator 0.125 Crane 11 Ton 2.000 Tools Set 1.000 Grinding Machine	17.100	20.000	18.550	1.462
094 201-1600	Terrazzo, floor tiles, non-slip 40 mm thick, 400 mm x 400 mm			17.100	20.000	18.550	1.462
095	ACOUSTICAL TREATMENT & WOOD FLOORING						
095 100	ACOUSTICAL CEILINGS						
095 102	CEILING TILE						
095 102-0700	Ceiling acoustic tile, 20 mm thick, directly cemented with acoustical cement " adheasive", 300 mm x 300 mm, no Pattern.	SQM	0.125 Labor Foreman 2.000 Finishing Carpenter 1.000 Helper 1.000 Tools Set	50.000	58.000	54.000	0.160
095 102-0720	Ceiling acoustic tile, 20 mm thick, directly cemented with acoustical cement " adheasive", 300 mm x 600 mm, no Pattern.			66,000	76.000	71.000	0.121
095 102-0740	Ceiling acoustic tile, 20 mm thick, directly cemented with acoustical cement " adheasive", 300 mm x 300 mm, Pattern layout.	П		36.000	41.000	38.500	0.222
095 102-0740	Ceiling acoustic tile, 20 mm thick, directly cemented with acoustical cement " adheasive", 300 mm x 600 mm, Pattern layout.	П		45.000	52.000	48.500	0.178
	SUSPENDED ACOUSTIC CEILING BOARDS: Not including suspen	sion sv	tem:			1,000,000,000	JANA, AND
795 104-0400	Suspended Acoustic Ceiling Boards, fiberglass, film faced 610 mm x 610 mm or 610 mm x 1220 mm, 20 mm thick	SQM	0.125 Labor Foreman 1.000 Finishing Carpenter 1.000 Helper 1.000 Tools Set	52.000	60.000	56.000	0.154
95 104-0500	Suspended Acoustic Celling Boards,fiberglass,film faced 610 mm x 610mm or 610 mm x 1220 mm, 76 mm thick,thermal, 1.9 m2 K/W			36.000	41.000	38.500	0.222
the state of the state of the	Suspended Acoustic Ceiling Boards, glass cloth faced fiberglass, 20 mm thick			44.000	51.000	47.500	0.182
95 104-0700	Suspended Acoustic Ceiling Boards,glass cloth faced fiberglass, 25 mm thick			43.000	50.000	46.500	0.186
	Suspended Acoustic Ceiling Boards,glass cloth faced fiberglass, 38 mm thick,nubby face			42.000	48.000	45.000	0.190
95 104-0900	Suspended Acoustic Ceiling Boards, mineral fiber boards, 16mm thick,			52.000	60.000	56.000	0.154
95 104-1000	aluminum faced 610 mm x 610 mm Suspended Acoustic Ceiling Boards,mineral fiber boards,			57.000	66,000	61.500	0.140
	16 mm thick_plastic coated face 610 mm x 1220 mm Suspended Acoustic Ceiling Boards,mineral fiber, 2 hour rating, 16 mm thick	-		52.000	60.000		
	Suspended Acoustic Ceiling Boards, mirror faced panels, 21 mm thick, 610 mm x 610			39.000	45.000	56.000 42.000	0.154
95 104-2100	mm Suspended Acoustic Ceiling Boards,polystyrene eggcrate, 10 mm x 10 mm x 13 mm	1		39.000	45.000		Mile and the
	cubes Suspended Acoustic Ceiling Boards,luminous panels,prismatic,acrylic or polystyrene	-				42.000	0.205
	Suspended Acoustic Celling Boards, juminous panels, prismatic, acrylic or polystyrene Suspended Acoustic Celling Boards, perforated aluminum sheets, 0.61 mm thick			35.000	40.000	37.500	0.229
33 104-3000	corrugated,painted or plain Suspended Acoustic Ceiling Boards,mineral fiber, 610 mm x 610 mm			38.000	44.000	41.000	0.211
33 104-3720	or 1220 mm,reval edge painted 16 mm thick			52.000	60.000	56.000	0.154
	Suspended Acoustic Celling Boards, wood fiber in cement, 610mm x 610mm or 1220 mm, painted, 50mm thick			30.000	35.000	32.500	0.267
	Suspended Acoustic Ceiling Boards,wood fiber in cement, 610 mm x 610 mm or 1220 mm,painted, 76 mm thick			27.000	31.000	29.000	0.296
95 106	SUSPENDED CEILING, COMPLETE: Including standard suspension system and 38mm carrier channels		I	D Mari		20000000	100.00000
95 106-0600	Suspended ceillings complete, fiberglass board, 610mm x 1220 mm x 16 mm, plain aced, supermarkets	SQM	0.125 Labor Foreman 1.000 Finishing Carpenter 1.000 Helper	27.000	31.000	29.000	0.296

CSI	09: FINISHES ITEM DESCRIPTION	UNI	т	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG	AVRG. E. H.
0	uspended ceilings complete, fiberglass board, 610 mm x 1220 mm x 20mm, plain		1		22.000	25.000	23.500	0.364
100-07001	uspended callings complete,mineral fiber,cement binder,T bar suspension 610 mm.x		+		20.000	23.000	21.500	0.400
TUO-UDUU ~	usperiude callings complete, mineral fiber, cement binder, T bar suspension 610 mm x suspension 610 mm x	+	+		23.000	26.000	24.500	0.348
100-0810	220 mm x 16 mm board	+	+		21.000	24.000	22.500	0.381
106-0900 S	Suspended ceilings complete, luminous panels, prismatic, acrylic Suspended ceilings complete, metal pan with acoustic pad, steel, Aluminium or stainless		1		10.000	12.000	11.000	0.800
100-1200	teel				21.000	24.000	22.500	0,381
	Suspended ceilings complete, Z bar suspension, 16 mm or 20 mm mineral fiber tile			-	24-1-2			
	ACOUSTICAL SPACE UNITS		10.75					
	SOUND ABSORBING PANELS:) 125 Lebor Foreman		II	HANNAGAN A	
5 254-0200	Sound absorbing panels perforated steel facing painted w / fiberglass,no backs,57 mm thick, space units,ceiling or wall hung, white or colored	SC		t 000 Finishing Carpenter 1,000 Helper 1,000 Power Tools	8.000	9.000	8.500	1.000
	Sound absorbing panels fiberboard sound deadening panels 13 mm thick				52.000	60.000	56.000	0.154
e ventreave (Sound absorbing panels, fiberglass panels, 1220 mm x 2440 mm x 25mm thick, with				19.000	22.000	20,500	0.421
5 254-0500	glass cloth face for walls cemented. Sound absorbing panels fiberglass panels, 1220 mm x 2440 mm x 38 mm thick,				22.000	25.000	23.500	0.364
5 254-0700	dacron covered, inner aluminum frame, wall mounted Sound absorbing panels, mineral fiberboard panels, fabric covered, 762 mm x 2743 mm			34	17.000	20.000	18.500	0.47
15 254-0900	20 mm thick,concealed spline,wall mounted	1						
95 300	ACOUSTICAL INSULATION				Serial En			
95 304	BARRIERS:			0.125 Labor Foreman				
95 304-0010	Barriers,plenum,leaded vinyl, 2.34 kg/m2	S	QM	1,000 Finishing Carpenter 1,000 Helper 1,000 Power Tools	12.00	14.000	13.000	0.66
	a landed sine 7.32 kg/m2				10.50	0 12.000	11.250	
	Barriers,plenum,leaded vinyl, 7.32 kg/m2 Barriers,plenum,leaded vinyl, 14.65 kg/m2				8 40	0 10.000	9.200	0.95
	Barriers, aluminum foil, fiberglass reinf, parallel with joists	1	SQM	0.125 Labor Foreman 1.000 Finishing Carpenter 1.000 Helper 1.000 Power Tools	20.00	0 23.000	21.500	0.40
	Barriers, aluminum foil, fiberglass reinf., perpendicular to joists	1	T		12.00	14.000	13.000	-
	Barriers, aluminum mesh, kraft, paperbacked				20.00	00 23.000	(Probability)	1000
	Barriers, fiberglass batts, kraft faced, 150 mm thick				100.00		-	0.00
	Barriers, sheet lead, 0.45 kg., 0.397 mm thick, perpendicular to joists		+	\	10.50	12.000	11.25	0.7
95 308	SOUND ATTENUATION:							-
	Sound attenuation,blanket, 25 mm thick		SQM	0 125 Labor Foreman 1.000 Finishing Carpenter 1.000 Halper 1.000 Power Tools	36.00	41.00	38.50	0 0.2
	2 June North Display 75 mm think	+	T		35.0	00 40.00	0 37.50	0 0.2
	Sound attenuation,blanket, 76 mm thick Sound attenuationthermal or acoustical bat, above ceiling, 100 mm thick		1		33.0	00 38.00	0 35.50	
095 308-320	Sound attenuation,urethane plastic foam,open cell,on wall,100 mm thick	1			40.0	00 46.00	0 43.00	-
095 308-300	Sound attenuation, pretains plastic foam, open cell, on celling, 100 mm thick				33.0	00 40.00	0 36.50	0.2
095 308-390	Sound attenuation, fiberglass reinforced backer board underlayment,				30.0	00 35.00	0 32.50	0.2
	WOOD STRIP FLOORING							1
095 600	The substitute of the substitu			1000				
095 604	WOOD: Wood floor,in mastic,over 2 ply flet, 20 mm or 26 mm thick maple		sav	0.125 Labor Foreman 1,000 Finishing Carpente 1,000 Helper	12.2	14.00	13.1	0.0
		-	1	1.000 Power Tools	10.3	200 12.0	00 11.1	00 0.
	00 Wood,maple flooring,over sleepers, 20 mm thick	+		-	-	590 11.0	615	45, 0,
NA PROPERTY OF THE PROPERTY OF	00 Wood,maple flooring,over sleepers, 26 mm thick	+	+			690 11.0	0.789	45 0.
095 604-370	00 Wood,portable hardwood,prefinished panels	-	+			850 6.0	00 5.4	25 1
095 604-37	25 mm truck	+	+		10 10	000 12.0		-
	00 Wood,maple,strip, 20 mm x 57 mm,not including finish	-	+	-		200 12.0		
	00 Wood, parquetry, standard, 8 mm thick, not including finish, oak or teak average		-	+		200 12.0	1	_
	50 Wood, parquetry, standard, 20 mm thick, oak, average		+		_	375 7.0		588
	00 Wood, parquetry, custom, including finish, average				0	- '''		100 0

CODE	ITEM DESCRIPTION	UNI	Т	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG	AVRG. E. H.
095 604-7200	Wood,prefinished,acrylic wood parquet blocks,	\top	+		10.200	12.000	11.100	0.78
095 604-7400	300 mm x 300 mm x 8 mm,irradiated in epoxy Wood, yellow pine,20 mm x 80 mm ,tounge & groove, not including finish.	++	+		13,260	15.000	14.130	10,000
	Refinish wood floor,sand, 2 coats poly wax soft wood, average	+	+				[2][-0]	0.60
		++	+		19.700	23.000	21.350	0.60
	Refinish wood floor,sand, 2 coats poly.wax hard wood,average Wood,sanding and finishing,fill,polyurethane,wax	++	+		8.800	10.000	9.400	1.36
	Wood, subfloor and underlayment, See division 061164 & 168	 		+	13.800	16.000	14.900	0.87
095 650	WOOD BLOCK FLOORING						-	
095 651	WOOD BLOCK FLOORING:		_					
	Wood block flooring,natural finish, 25 mm thru. 50 mm thick, fir or pine	SQM	1	0.125 Labor Foreman 1.000 Finishing Carpenter 1.000 Helper	15.000	17.000	16.000	0.53
096	FLOORING & CARPET	_	1	1,000 Power Tools				-
096 150	MARBLE FLOORING							
096 151	MARBLE & GRANITE:					-		
	Marble,Thin gauge tile, 300 mm x 150 mm, 10 mm, morter set	SQM	3 0 0 0	.375 Foreman .000 Tile Layer .000 Tiler Layer Helper .825 Crane 11 Ton .825 Crane 11 Ton .500 Power Tools .125 Hodoamer .500 Grinding Machine	10.950	13.000	11.975	1.27
096 151-0030	Marble tile 200 mm x 200 mm x 20 mm , morter set	\top	T		10.700	12.000	11.350	1.30
096 151-0050	Marble tile 300 mm x 300 mm x 20 mm , morter set	11	Ť		15.300	18.000	16.650	0.91
096 151-0080	Marble tile 400 mm x 400 mm x 20 mm , morter set	SQM	2. 3. 0. 0. 0.	.375 Foreman .000 Tile Layer .000 Tiler Layer Helper .625 Equip. Operator .625 Crane 11 Ton .500 Power Tools .125 Holdcarrier .500 Grinding Machine	16.400	19.000	17.700	0.854
096 151-0100	Marble tile 400 mm x 400 mm x 30 mm , morter set		T		14.153	16.000	15.076	0.989
096 151-0120	Marble tile 400 mm x 400 mm x 30 mm, morter set, Building above 5 floors, reduce production 3% each extra floor, avg production through building for 15 floors as example.				12.501	14.000	13.251	1.120
096 151-0140	Marble tile 400 mm x 400 mm x 30 mm , morter set, Building above 5 floors, reduce production 3% each extra floor, avg production through building for 25 floors as example.	som	2 3 0 0 0 0	375 Foreman 000 Tile Layer 000 Tiler Layer Helper 825 Equip. Operator 625 Crane 11 Ton 500 Power Tools 125 Hodcarrier 500 Grinding Machine	10.756	12.000	11.378	1.302
096 151-0200	Marble, 300 mm x 300 mm x 10 mm, thin set,floors		T		17.000	20.000	18.500	0.824
96 151-1000	Granite floor, 300 mm x 300 mm x 20 mm thick.				13.000	15.000	14.000	1.077
96 151-1100	Granite floor, 400 mm x 400 mm x 30 mm thick.	†	t		12.000	14.000	13,000	1,167
96 151-2000	Marble stair tread 300 mm & riser 160 mm high, up to 1 meter long.	LM	1		19.450	22.000	20.725	0.720
Vancous and annual to	Marble stair tread 300 mm & riser 160 mm high, from 1.2 meter up to 1.8 meter long.		+		25.869	30.000	27.934	0.541
	Granite stair tread 300 mm & riser 160 mm high, up to 1 meter long.	1	1		17.000	20.000	18.500	0.824
	Granite stair tread 300 mm & riser 160 mm high, from 1.2 meter up to 1.8 meter long.		+		22.000	25.000	23.500	0.636
and a convenience of the	SLATE FLOORING	_ ·			aziooo	20.000	20.000	0.000
Marchanes 7	SLATE TILE:	111000			March Andrews	-	-	
7	Slate tile, 150 mm x 150 mm x 6 mm thick, thin set	SQM	1.0 1.0 0.1 0.1	125 Foreman 000 Tile Layer 000 Tiler Layer Helper 125 Equip. Operator 125 Crane 11 Ton 000 Power Tools 125 Hodoarrier	15.000	17.000	16.000	0.667
96 254	CONCRETE FLOORS And toppings,see division 033-454		10.1			-		
96 350 E	BRICK FLOORING		_					
	FLOORING:							
	Flooring, acidproof shales, red, 200 mm x 95 mm x 32 mm thick, sand bed.	SQM	1.0	25 Foreman 000 Tile Layer 000 Tiler Layer Helper 000 Hodcarrier 000 Power Tools	9.000	10.000	9.500	1.778

CSI	0.9	: FINISHES	UNIT		ST	CREW	D. O. MIN.	D. O. MA	X. D. C		VRG. E. H.
ODE			-	+	25/2	WARRIED BY ME LOSE	8.325	10.0	000	9.163	1.922
354-0050	Floorin	ng,acidproof shales,red. 200 mm x 95 mm x 57 mm thick, sand bed.		+			10.350	12.0	000 1	1.175	1.546
354-0200	Floori	ing, acidproof clay brick, 300 mm x 300 mm x 40 mm thick, morter bed		+	_		9.300	11.0	11	0.150	1.720
354-0260	Floori	ing,ceramic,100 mm x 200 mm x 13 mm thick,unglazed, morter bed		+			8.370	10.		9.185	1.912
354-0280	Floori	ing,ceramic,hexagonel tile 200 mm, 20 mm thick,morter bed		+			8.280	-		9.140	1.932
354-0500	Floor	ing payers, 200 mm x 100 mm, 25 mm to 44 mm thick red, morter bec.		+				0	000	7.500	2 286
	Floor	ring,pavers, 200 mm x 100 mm, to 44 mm thick red, morter bed					7.000	-	000	8.375	2.065
354-0540		epoxy joints ring,pavers, 200 mm x 100 mm, 57 mm thick red, morter bed					7.750		000	51.500	0.333
	_						48,000	0.75	000	86.000	0.200
		ring for epoxy joints add ring for waxed surface, steam cleaned				•	80.00	92	.000	30.000	0.250
US-VI-TUELDE		SILIENT TILE FLOORING						-	+	-	-
6 600	RES	SILIENT TILE PLOORING				55.4/2					
6 610	RE	SILENT:	-	Ir	1125	Foreman					
	_	silient,asphalt tile,on concrete, 3 mm thick,colored.	SC	M .	000.1	Tile Layer Helber Tools Set	42.80	0 49	9.000	45.900	0.187
		silient base,cove.rubber or vinyl, to 3 mm thick,standard colors.upto	1				110.00	00 12	7.000	18.500	0.073
6 610-080	UU . FO	mm high	D.	2M	-		39.0	00 4	5.000	42.000	0.205
6 610-170	nn Res	sillent conductive flooring, rubber tile, or homogneous vinyl tile, 3 mm thick	- 50	2141	-		21.4	00 2	5.000	23.200	0.374
96 610-22	00 Res	silient Unbevelled Cork tile, standard tinish, or uremane illusin,					- Administration		1.000	28.850	0.300
	Re	silient, bevelled Cork tile, standard finish, or uretnane irrish,					26.7		200000000000000000000000000000000000000	William V.	0.250
96 610-22	Ba	nm thick to 13 mm thick ssillent, polythylene, in rolls, no base, including nylon action surface,					32.0	00	37.000	34.500	10.0
96 610-37	UD	to 10 mm thick.					16.0	00	18.000	17.000	0.500
96 610-55	500 Re	esilient polyvinyl chloride sheet,for gymnasium, 6 mm thick	1			+	14.0	000	16.000	15,000	0.57
		esilient polyvinyl chloride sheet, for gymnasium,10 mm thick	315,727	ow.	1.00	5 Foreman 10 Tile Layer 10 Helper	32	000	37.000	34.500	0.25
096 610-59	900 Re	esilient rubber sheet, 914 mm wide, 3 mm thick	4	1	1.00	00 Tools Set	26.	000	30.000	28.000	0.30
96 610-6	000 R	esilient rubber sheet, 914 mm wide, 6 mm thick	-	+	-		28	000	32.000	30.000	0.28
096 610-6	6050 R	esilient rubber tile,marbleized colrs, 300 mm x 300 mm, 5 mm thick	-	+	+		16	000	18.000	17.000	0.50
	F	a allient prothetic turf, 10 mm thick		+	+		16	000	18.000	17.000	0.50
096 610-6	3750 R	Resilient, synthetic turf, interlocking 610 mm x 610 mm squares, 13 mm slick, 167		+	+				39.000	36.500	0.23
	- D	Resilient vinvi composition tile, 300 mm x 300 mm, 2 mm and 300 mm						000	STATE OF STA	34.500	0.2
096 610-7	th	hick,embossed or marbleized or solid Resilent,vinyl sheet goods,backed, to 6 mm thick,average				•	32	.000	37.000	34,300	7.50
1 - 100		RESILIENT ACCESSORIES						_	-		
096 780		STAIR TREADS AND RISERS:			-10	Table 2000 Maria		-	-		
096 781	-	Stair treads, rubber, molded tread, 300 mm wide, 8 mm thick		LM	1.0	125 Foreman 000 Tile Layer 000 Helper 000 Tools Set	4:	2.500	49.000	45.750	0.1
			-	LM			4	2.500	49.000	45.75	
096 781-	-0900	Stair treads, rubber, grip strip safety tread, colors, 8 mm thick	12.00	son			3	2.000	37.000	34.50	
096 781	-1200	Stair landing,rubber,grip strip safety tread,colors, 8 mm thick		LM			4	2.500	49.000	45.75	1 2
096 781	-2100	Stair treads, vinyl, molded 300 mm wide, colors, 6mm thick		T	1		6	3.000	72.000	67.50	
096 781	-2400	Stair risers, vinyl, 178 mm high, 3 mm thick, coved				•	3	2.000	37.000	34.50	0.
096 781		Stair treads and risers combined, vinyl, 3 mm thick									-
096 85	50	SHEET CARPET									
096 85		CARPET: Carpet,commercial grade,direct cement, Nylon, level loop, upto 1134 gram,		SQ	M	0.125 Foreman 1.000 Tile Layer 1.000 Helpe:		80.000	92,000	86.0	
I DESCRIPTION OF THE PARTY OF T	ro Gero	avg size room Cernet commercial grade, direct cement, Nylon, plush, upto 1700 gram,						68.000	78.000	73.0	
096 85	2-3340							68.000	78.000	73.0	
096 85	2-3500	Carpet, commercial grade, direct cement, Olefin, upto 1190 gram, avg size room Carpet, commercial grade, direct cement, Wool, level loop, upto 1418 gram,						000.08	92.600	800	NU L
	32-4500	avg size room Carpet commercial grade, direct cement, Wool, patterned, upto 1360 gram.						64.000	74.000	69.0	
Lone pr	52-4900	avg size room Carpet,commercial grade,direct cement, Nylon, plush,upto 1700 gram,				Server in the		54.000	62,000	58.0	000

CSI	ITEM APAGNATION			CF	REW			D. O.	AVRG.
CODE	ITEM DESCRIPTION	ľ	INIT	1 0 per 12712	CTURE	D. O. MIN.	D. O. MAX.	AVRG	E. H.
096 852-5200	Carpet,commercial grade,direct cement, Wool,patterned, upto 1360 gram, Large open area, no cuts.		Ţ			110.000	127.000	118.500	0.0
096 852-5600	For bound carpet baseboard		LM			160.000	184.000	172.000	0.0
096 852-5610	Carpet for stairs, average 1.2 meter long trad.	R	ISER			32.000	37.000	34.500	0.2
096 852-9000	Carpet, sponge rubber pad, or sponge felt pad, or urethane pad, average	5	QM		1	180.000	207,000	193.500	0.04
096 856	CARPET MAINTENANCE:	-			-				
096 856-0010	Carpet maintenance, steam clean, per cleaning average	5	OM	1 Common Lat	xorer	160.000	184.000	172.000	0.05
096 900	CARPET TILE:			1 Power tool					0.00
096 900-5060	Carpet tile, 457 mm x 457 mm or 610 mm x 610 mm upto 1190 gram	S	ОМ	0.125 Foreman 1.000 Tile Laye 1.000 Helper 1.000 Tools Se	90	59.000	68.000	63.500	0.00
097	SPECIAL FLOORING & FLOOR TREATMENT								
097 200	EPOXY-MARBLE FLOORING								
097 201	COMPOSITION FLOORING:								
097 201-0010	Composition flooring, acrylic, 6 mm thick	S	αм	0.125 Foreman 1.000 Cement I 4.000 Common 1.000 Grinder 0.500 Mixer 1.000 Gas Vibri 0.500 Hodcarrie 0.500 Hand Me	Finisher Laborer ator er	32.000	37.000	34.500	0.750
097 201-0100	Composition flooring,acrylic, 10 mm thick					28.000	32.000	30.000	0.857
097 201-0600	Composition flooring,epoxy,with colored quartz chips,boardcast,average					30.000	35.000	32.500	0.800
097 201-0900	Composition flooring,epoxy,trowelled,average		7:-			22.500	26.000	24.250	1.067
097 201-1200	Composition flooring, heavy duty epoxy topping, 6 mm thick					18.000	21.000	19.500	1.333
097 201-1800	Composition flooring.epoxy terrazzo, 6 mm thick,chemical resistant,average			0.250 Foreman 2.000 Terrazzo 3.000 Terrazzo 0.250 Terrazzo 1.000 Hodoarrie 0.250 Tools Set 0.500 Hand Met	Helper Grinder Mixer 0.28 m3	15.000	17.000	16.000	1.200
098	SPECIAL COATINGS				Manual Property of the Parket				7.27
098 150	GLAZED COATINGS								
98 150	GLAZED COATINGS:								
98 150-0010	Wall coatings, acrylic glazed coatings, average	SC	M	1 Painter,ordinar 1 Set Consumet		35.000	40.000	37.500	0.229
98 150-0300	Wall coatings, epoxy coatings, average	\Box		T COT COTIBUTED	1000	30.000	35.000	32.500	0.267
98 150-0600	Wall coatings, exposed aggregate, troweled on, 2 mm to 6 mm, average	П				18.000	21.000	19.500	0.444
98 150-3600	Wall coatings, ceramic-like glazed coating, cementitious, average					35.000	40.000	37.500	0.229
099	PAINTING & WALL COVERINGS					7			
99 100	EXTERIOR PAINTING		Т	74					
99 104	DOORS AND WINDOWS:				-				
99 104-0130	Door frames & trim,only,brushwork,primer	LA		Painter,ordinar		200.000	230.000	215.000	0.040
99 104-0120	Door frames & trim,only,brushwork, finish coat exterior latex	П		Ser Sonsured	- renvio	180.000	207.000	193.500	0.044
	Door frames & trim,only,brushwork primer & 1 coat,exterior latex	\Box	1			95.000	109.000	102.000	0.084
		+ +	1			60.000	69.000	64.500	0.133
99 104-0130	Door frames & trim, only, brushwork, primer & 2 coat, exterior latex	1	- 1				20.000	18.500	0.471
99 104-0130 [99 104-0140 [99 104-0150 [Doors,flush,both sides,0.9 x 2.1 m, including frame,brushwork primer,	EA		1		1/(882)	20.000	10.500	
99 104-0130 [99 104-0140 [99 104-0150 [Doors,flush,both sides,0.9 x 2.1 m, including frame,brushwork primer, Paint area 7.2 meter both sides.	-	+			17.000	139 000	120 000	
99 104-0130 [99 104-0140 [99 104-0150 [99 104-0160 [Doors,flush,both sides,0.9 x 2.1 m, including frame,brushwork primer, Paint area 7.2 meter both sides. Doors,flush,both sides, brushwork primer paint	EA SQI	+			120.000	138.000	129.000	0.067
99 104-0130 [99 104-0140 [99 104-0150 [99 104-0160 [99 104-0190 [Doors, flush, both sides, 0.9 x 2.1 m, including frame, brushwork primer, Paint area 7.2 meter both sides. Doors, flush, both sides, brushwork primer paint Doors, flush, both sides, brushwork, primer, & 2 coats exterior latex. Doors, flush, both sides, 0.9 x 2.1 m, including frame & trim, brushwork Stain sealer & 2	so:	M			120.000 37.000	43.000	40.000	0.216
99 104-0130 [99 104-0140 [99 104-0150 [99 104-0160 [99 104-0190 [99 104-0200 [Doors, flush, both sides, 0.9 x 2.1 m, including frame, brushwork primer, Paint area 7.2 meter both sides. Doors, flush, both sides, brushwork primer paint Doors, flush, both sides, brushwork, primer, & 2 coats exterior latex. Doors, flush, both sides, 0.9 x 2.1 m, including frame & trim, brushwork Stain sealer & 2 coats polyurethane, Paint area 7.2 meter both sides.	so	M			120.000	7000011100000	V1 00 0000	e success
99 104-0130 [99 104-0140 [99 104-0150 [99 104-0160 [99 104-0190 [99 104-0200 [99 104-0200 [99 104-0205 [99 104-0205 [Doors, flush, both sides, 0.9 x 2.1 m, including frame, brushwork primer, Paint area 7.2 meter both sides. Doors, flush, both sides, brushwork, primer paint Doors, flush, both sides, brushwork, primer, & 2 coats exterior latex. Doors, flush, both sides, 0.9 x 2.1 m, including frame & trim, brushwork Stain sealer & 2 coats polyurethane, Paint area 7.2 meter both sides. Doors, flush, both sides, including frame & trim, brushwork, stain, sealer & 2 coats polyurethane.	so:	м		- D	120.000 37.000	43.000	40.000	0.216
99 104-0130 [99 104-0140 [99 104-0150 [99 104-0160 [99 104-0190 [99 104-0200 [99 104-0200 [99 104-0205 [99 104-0205 [Doors, flush, both sides, 0.9 x 2.1 m, including frame, brushwork primer, Paint area 7.2 meter both sides. Doors, flush, both sides, brushwork, primer paint Doors, flush, both sides, brushwork, primer, & 2 coats exterior latex. Doors, flush, both sides, 0.9 x 2.1 m, including frame & trim, brushwork Stain sealer & 2 coats polyurethane, Paint area 7.2 meter both sides. Doors, flush, both sides, including frame & trim, brushwork, stain, sealer & 2	SQI	м			120.000 37.000 3.000	43.000	40.000 3.500	0.216 2.667
99 104-0130 99 104-0140 99 104-0160 99 104-0160 99 104-0160 99 104-0200 99 104-0205 29 104-0200 20 104-0200 20	Doors,flush,both sides,0.9 x 2.1 m, including frame,brushwork primer, Paint area 7.2 meter both sides. Doors,flush,both sides, brushwork primer paint Doors,flush,both sides,brushwork,primer, & 2 coats exterior latex. Doors,flush,both sides,0.9 x 2.1 m, including frame & trim,brushwork Stain sealer & 2 coats polyurethane, Paint area 7.2 meter both sides. Doors,flush,both sides,including frame & trim,brushwork,stain,sealer & 2 coats polyurethane Doors,flush,both sides,including frame & trim,brushwork,primer Doors,louvered,both sides,including frame & trim,brushwork,primer	SQI	м			120.000 37.000 3.000 20.000	43.000 4.000 23.000	40.000 3.500 21.500	0.216 2.667 0.400
99 104-0130 99 104-0140 99 104-0150 99 104-0160 99 104-0200 99 104-0200 99 104-0200 99 104-0270 99 104-0270 99 104-0290 99 104-0200 99	Doors, flush, both sides, 0.9 x 2.1 m, including frame, brushwork primer, Paint area 7.2 meter both sides. Doors, flush, both sides, brushwork, primer paint Doors, flush, both sides, brushwork, primer, & 2 coats exterior latex. Doors, flush, both sides, 0.9 x 2.1 m, including frame & trim, brushwork Stain sealer & 2 coats polyurethane, Paint area 7.2 meter both sides. Doors, flush, both sides, including frame & trim, brushwork, stain, sealer & 2 coats polyurethane Doors, flush, both sides, including frame & trim, brushwork, primer	SQI	м			120.000 37.000 3.000 20.000 54.000	43.000 4.000 23.000 62.000	40.000 3.500 21.500 58.000	0.216 2.667 0.400 0.148

CSI CODE	I 09: FINISHES ITEM DESCRIPTION	UNIT		CREV STRUCT		D. O. MIN.	D. O. MAX.	D. O. AVRG	AVRG. E. H.
	and the live frame 2 trim roll 2 hursh primer	TT				84,000	97.000	90.500	0.095
	Doors,panel, both sides, including frame & trim, roll & bursh, primer		T			22.000	25.000	23.500	0.364
STATE OF STREET	Doors,panel,both sides,including frame & trim,roll,primer & 2 coats,exterior latex Doors,panel,both sides,including frame & trim,brushwork,stain,sealer,2 coats	\forall				14.250	16.000	15.125	0.561
104-0380	polyurethane	+	Ť			96.000	110.000	103.000	0.083
	Window,wood upto 1.4 m2 surface,brushwork primer	++	+			30.000	35.000	32.500	0.267
	Window,wood upto 1.4 m2 surface, brushwork, primer & 2 coats	++	+			16.250	19.000	17.625	0.492
9 104-0446	Window,wood upto 1.4 m2 surface,brushwork stain sealer & 1 coat varnish	*	1						
9 106	SIDING	SQM		Painter,ordinary		160.000	184,000	172.000	0.050
9 106-0500	Exterior siding painting, alkyd, oil base, 2 coats, spray	July	1	Paint sprayer		44,000	51,000	47.500	0.182
9 106-1200	Stucco,rough,oil base,paint 2 coats,brushwork	++	+		_	70.000		75.500	0.114
9 106-1400	Stucco,rough,oil base,paint 2 coats,roller		+			140.000	161.000	150.500	0.057
9 106-1600	Stucco,rough,oil base,paint 2 coats,spray	-	+			120.000		129.000	0.067
9 106-1800	siding,clapboard,oil base, primer coat,& 2 coats texture,brushwork		+			70.000	0.500000000	75.500	0.114
99 106-4400	Siding wood shingles,oil base,primer coat, & 2 coats texture,spary		+				10.000	42.000	0.205
9 106-5000	Siding wood shingles, roll, 2 coats stain.	-	+			39.000		41.000	0.211
99 106-6000	Siding wood shingles, brushwork 2 coats stain		+	-		38.000		54.000	0.160
	Siding wood shingles, oil base, 3 coats, 1 coat primer, brushwork, 2 coats, spray.	•		•		50.000	58.000	54.000	0,100
99 108	FENCES:		- 12	D. I. adam				55.000	0.154
99 108-011	0 Fences paint chain link or wire metal, water base, 1 coat roller &1 coat brushwork	SQ	V 1	Painter,ordinar Set Consumab	le Tools	52.000	60.000	56.000	17/1/15/
	0 Fences paint chain link or wire metal,spray,water base, & 2 coats.			Painter,ordinar Paint sprayer	У	150.000	173.000	161.500	0.05
	Fences paint stockade, water base roll & brush, first coat	4		Painter, ordinal Set Consumat		95.000	0 110.000	102.500	0.08
	O Fences paint stockade, water base roll & brush, second coat				15	125.00	0 144.000	134.500	0.06
With Markey Charles				Painter, ordina Paint sprayer	ry	275.00	0 316.000	295,500	0.02
	0 Fences paint stockade,water base spray,first coat	\pm		rain soluyo	i i	335.00	0 385.000	360.000	0.02
	Fences paint stockade, water base spray, second coat MISCELLANEOUS: For painting metals see Div. 051255	-							
99 112	Railing exterior decorative wood including balusters brushwork	L	v	1 Painter,ordina 1 Set Consuma		52.00	60.000	56.000	0.15
99 112-010	stain, seal, sand & varnish First coat.			1 Set Consuma	Die Tous	68.00	78.000	73.000	0.11
-MULTINE	20 Railing paint,brushwork,stain,sand,seal & varnish Second coat.	so				28.00	00 32,000	30.000	0.28
	50 Decking paint,sealer or paint,alkyd,brushwork	- 30	***			30.00	00 35.000	32.500	0.26
	Decking paint, sealer or paint, alkyd, brushwork, first coat		M	1 Painter, ordina	ary	32.00	37.000	34.50	0.25
099 112-047	Decking paint, sealer, or paint, alkyd, brushwork, second coat	50	am.	1 Set Consuma	ble Tools	1 09500			
099 120	TRIM:	-		1 Painter ordin	arv	20.00	00 71.000	66.50	0.12
099 120-01			М	1 Set Consume	ble Tools	62.00	71.000	20000 and	
099 120-01	Paint fascia, 25 mm thick, 100 mm high, latex paint one coat, brushwork,			1 Painter, ordin 1 Paint spraye		89.00	00 102.000	95.50	0,0
	Paint fascia 25 mm thick, 300 mm high, latex paint one coat, brush work,				0.0	80.08	92.000	86.00	0.11
099 120-02	8. sprayl 2 coats Gutters & downspouts paint metal zinc chromate paint brushwork gutters,	-		1 Painter, ordin		60.0	00 69.000	64.50	0 0.1
099 120-02	127 mm, 3 coats			1 Set Consum	able Tools				
099 124	WALLS,MASONRY (CMU):			1 Painter,ordin	varv	800.0	00 230.000	215.00	0.0
099 124-04	10 Walls,masonry paint,roll,latex,paint, first coat	S	QM	1 Set Consum 1 Painter.ordir	able Tools	200.0		1000	74
099 124-04	Walls,masonry paint,roll,latex,paint, second coal	S	QM	1 Set Consum		230.0	100000	50 200 200	
	Walls,masonry paint,roll,waterproof sealer, first coal					112.0		-	
On the last to the	Walls,masonry paint,roll,waterproof sealer, 2nd coat		1			176.0	202.00	A DESCRIPTION	
	450 Walls,masonry paint,spray,latex,paint,first coat			1 Painter, ordi		400.0	000 460.00	-	
SALE DONE TO LE	460 Walls,masonry paint,spray,latex,paint, 2nd coal					450.0	000 518.00		
The second second	470 Walls,masonry paint,spray,waterproof,sealer,first coat					400.0	000 460.00		Sec.
	480 Walls, masonry paint, spray, water proof, sealer, second coat		+		Į.	450.0	518.00	0 484.0	0.0
100000 (PAC)	INTERIOR PAINTING			n e e					
099 200	CABINETS AND CASEWORK:			William San					.i
099 204			SOM	1 Painter,ord		48.	000 u.f.C.	51.5	g) a.
180000000000000000000000000000000000000	000 Cabients and casework,primer coat,oil base,brushwork		T	1 36. Ceristi	1008	42.	000 48.00	00 45.0	00 0
099 204-2	000 Cabients and casework,paint,latex paint,brushwork, 1 coat		-	-	-	1 5642	3. 41.00	00 38.5	00 0

CSI CODE	ITEM DESCRIPTION	UN	IT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG	AVRG. E. H.
099 204-4500	Cabients and casework,varnish,3 coats,brushwork,sand after 1st coat	++		1	18.000	21.000	19.500	0.44
099 214	DOORS & WINDOWS,LATEX: See Div. 099104 exterior doors.							
099 216	DOORS & WINDOWS, ALKYD (OIL BASE): Labor cost includes							
099 216-0500	Plush door & frame paint,oil,primer brushwork	so	М	1 Painter, ordinary	120.000	138.000	129.000	0.06
251227110	Flush door & frame paint,oil,primer brushwork,& 1 coat paint.			1 Set Consumable Tools	53.000	61.000	57.000	0.15
	Flush door & frame, stain, brushwork,wipe off	+			110.000	127.000	118.500	0.13
recessationes inven	Flush door & frame paint, varnish, 3 coats brushwork, sand after 1st coat	+			20.000	23.000	21.500	0.40
	Panel door & frame paint,oil,primer brushwork	+			84.000	97.000	90.500	0.09
	Panel door & frame paint,oil,primer brushwork, & 1 coat paint	+			46.000	53.000	49.500	0.03
AND PROPERTY OF THE PARTY OF	Panel door & frame paint, stain, brushwork, wipe off	+	-		102.000	117,000	109.500	0.17
	Panel door & frame paint, varnish, 3 coats brushwork, sand after 1st coat	++	-		18.000	21,000	19.500	0.44
	Paint windows including frame & trim,per side,oil primer,brushwork	+	-		110.000	127.000	118,500	0.07
	Paint windows including frame & trim,per side,oil primer & 1 coat brushwork	+	\dashv		53.000	61.000	57.000	months
	WALLS AND CEILINGS: Labor cost includes protection of	+		*	55.000	61.000	57.000	0.15
099 224	adjacent items not painted							
099 224-0100	Paint concrete,dry wall or plaster,oil base,primer or sealer coat smooth finish,brushwork	SQN	4	1 Painter, ordinary 1 Set Consumable Tools	115.000	132.000	123.500	0.070
099 224-0240	Paint concrete,dry wall or plaster,oil base,primer or sealer coat	11		TOO! OUISMINE TOOS	140.000	161.000	150.500	0.057
	smooth finish,roller	++	\dashv		+			
	Paint concrete,dry wall or plaster,paint 2 coats, smooth finish,brushwork	++	+		60.000	69.000	64.500	0.133
divine variety of the same	Paint concrete,dry wall or plaster,paint 2 coats, smooth finish,roller	+	-	↑ Painter,ordinary	75.000	86.000	80.500	0.107
	Paint concrete,dry wall or plaster,paint 2 coats, smooth finish,spray	++	4	1 Paint sprayer 1 Painter ordinary	140.000	161.000	150.500	0.057
CONTROL STATE	Paint concrete,dry wall or plaster,paint 2 coats, sand finish,brushwork	1	-	1 Set Consumable Tools	50.000	58.000	54.000	0.160
	Paint concrete,dry wall or plaster,paint 2 coats, sand finish,roller		-		64.000	74.000	69.000	0.125
099 224-0980	Concrete, dry wall or plaster, paint 2 coats, sand finish, spray			Painter,ordinary Paint sprayer	118.000	136.000	127.000	0.068
99 224-1200	Concrete, dry wall or plaster, paint 3 coats, smooth finish, brushwork			Painter, ordinary Set Consumable Tools	40.000	46.000	43.000	0.200
99 224-1240	Concrete, dry wall or plaster, paint 3 coats, smooth finish, roller			(40)	50.000	58.000	54.000	0.160
99 224-1280	Concrete, dry wall or plaster, paint 3 coats, smooth finish, spray	1		Painter, ordinary Paint sprayer	94.000	108.000	101.000	0.085
99 700	WALLPAPER							
099 701	WALL COVERING							
99 701-0050	Wall covering, aluminum foil	SQM		Paper hanger Set Tools	30.000	35.000	32.500	0.267
99 701-0100	Wall covering, copper sheets, 0.6 mm thick, vinyl backing		1	Jes 1000	27,000	31.000	29.000	0.296
99 701-0600	Wall covering, cork tiles, light or dark, 300 mm x 300 mm x 5 mm		1		27.000	31.000	29.000	0.296
99 701-0700	Wall covering, cork tiles, light or dark, 300 mm x 300 mm x 8 mm		1		26.000	30.000	28.000	0.308
99 701-0900	Wall covering, cork tiles, light or dark, 300 mm x 300 mm x 6 mm, basketweave	SQM		Paper hanger	27.000	31.000	29.000	0.296
99 701-1000	Wall covering, cork tiles, light or dark, 300 mm x 300 mm x 13 mm, natural, non-	П	1	Set Tools	27.000	31.000	29.000	0.296
	directional pattern Wall covering, cork tiles, granular surface, 300 mm x 910 mm x 13 mm thick	\vdash	+		1	-		
	Wall covering, cork tiles, granular surface, 300 mm x 910 mm x 15 mm thick	\vdash	+		42.000	48.000	45.000	0.190
en-values included	Wall covering, cork tiles, polyurethane coated, 300 mm x 300 mm x 5 mm thick	+	+		40.000	46.000	43.000	0.200
		+	+		27.000	31.000	29.000	0.296
	Wall covering, cork titles, polyurethane coated, 300 mm x 300 mm x 8 mm thick	+	+		26.000	30.000	28.000	0.308
over84 can increase in	Wall covering, cork wallpaper, paperbacked, natural or coloured	+	+		42.000	48.000	45.000	0.190
	Wall covering, flexible wood veneer, 0.8 mm thick, plain woods	-	+		10.000	12.000	11,000	0.800
	Wall covering, flexible wood veneer, 0.8 mm thick, exotic woods	-	+		9.000	10.000	9.500	0.889
99 701-2400	Wall covering, gypsum based, fabric-backed, fire resistant for masonry walls, average		1		55.000	63.000	59.000	0.145
-	Wall covering, acrylic, modified, semi-rigid PVC, 0.71 mm thick		1		35.000	40.000	37.500	0.229
99 701-2800	Wall covering, acrylic, modified, semi-rigid PVC, 1 mm thick				33.000	38.000	35.500	0.242
9 701-3000	Wall covering, vinyl, fabric-backed, lightweight				55.000	63.000	59.000	0.145
9 701-3300	Wall covering, vinyl, fabric-backed, medium weight				42.000	48.000	45.000	0.190
9 701-3400	Wall covering, vinyl, fabric-backed, heavy weight		I	TES.	38.000	44.000	41.000	0.211
			-		100000000	2/10/2/19/50	717000000000000000000000000000000000000	7.11.11.11

CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN	D. O. MAX.	D. O. AVRG	AVRG. E. H.
099 701-3900	Wall covering, wallpaper, average workmanship, basic patterns (matching required), Quality workmanship			45.000	52.000	48,500	0.178
099 701-4100	Wall covering, linen wall covering, paper backed			27.000	31.000	29.000	0.296
099 701-4100	Wall covering, grass cloths with lining paper			27,000	31.000	29.000	0.296
099 900	SURFACE PREPARATION						
099 902	REMOVAL: Existing lead paint, by chemicals		in the second se				
099 902-0030	Removal existing paint from, plain metal surfaces	SQM	1 Painter, ordinary 1 Set Tools	9.600	11.000	10.300	0.833
099 902-0040	Removal existing paint from, plain wood surfaces			8.400	10.000	9.200	0.952
099 902-0070	Removal existing paint from, baseboard, to 300 mm wide			9.600	11.000	10.300	0.833
099 902-0200	Removal existing paint from balustrades, one side			2.940	3.000	2.970	2.721
099 902-1400	Removal existing paint from cabinets average.			3.360	4.000	3.680	2.381
099 902-2800	Removal existing paint from doors, one side			7.560	9.000	8.280	1.058
099 902-2840	Removal existing paint from doors, paneled, one side			4.300	5.000	4.650	1.860
099 902-3200	Removal existing paint from grilles, one side, average			2.850	3.000	2.925	2.807
099 902-4400	Removal existing paint from pipes, to 100 mm diameter (4")	LM		30.500	35.000	32.750	0.262
099 902-4440	Removal existing paint from pipes, to 300 mm diameter (12")	#.		10.100	12.000	11.050	0.792

Division 10 Specialties

Division 10.. Specialties..

Estimating Tips:

General

Many items in Division 10 require some type of support system that is not usually furnished with the item. Examples of these systems include blocking for the attachment of grab bars and support angles for ceiling hung toilet partitions. The required blocking or supports material must be added to the estimate in the appropriate division.

Some items in Division 10, such as lockers, may require assembly before installation.

Usually items of this division prefabricated and installed by special contractors under the general contractor supervision and coordination. Some items may be covered under provisional sum.

106 Partitions & Storage Shelving:

The required acoustical rating of a folding partition can have a significant impact on costs.

Verify the sound transmission co-efficient rating of the panel priced to the specification requirements.

CODE	N 10: SPECIALTIES ITEM DESCRIPTION	UN	ΙT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E.H.
101	CHALKBOARDS, COMPARTMENTS & CUBICLES	1						對於法律
101 100	CHALKBOARDS							
101 104	CHALKBOARDS							
101 104-0500	Sliding chalkboards, Vertical, one sliding board with back panel, wall mounted 2.4 m x 1.2 m	E	4	0.125 Labor Foreman 2.000 Carpenters 1.000 Laborer 1.000 Power Tool	8.000	9.000	8.500	1.000
101 104-0540	Sliding chalkboards, Vertical, one sliding board with back panel, wall mounted 2.4 m x 3.6 m				6.000	7.000	6.500	1.33
101 104-0620	Sliding chalkboards, Vertical, two sliding boards with back panel 2.4 m x 1.2 m				8.000	9.000	8.500	1.000
101 104-0660	Sliding chalkboards, Vertical, two sliding board with back panel 2.4 m x 3.6 m				6.000	7.000	6.500	1.33
101 104-0800	Sliding chalkboards Horizontal, two track, 1.2 m x 2.4 m, 2 sliding panels				8.000	9.000	8.500	1.000
101 104-0820	Sliding chalkboards Horizontal, two track, 1.2 m x 3.6 m, 2 sliding panels				7.000	8.000	7.500	1.143
101 104-0840	Sliding chalkboards Horizontal, two track, 1.2 m x 4.8 m, 4 sliding panels				6.000	7.000	6.500	1.33
101 104-0920	Sliding chalkboards Horizontal, four track, 1.2 m x 2.4 m, 4 sliding panels				8.000	9.000	8.500	1.000
101 104-0960	Sliding chalkboards Horizontal, four track, 1.2 m x 4.8 mm, 4 sliding panels				6.000	7.000	6.500	1.333
101 104-1450	Sliding chalkboard Vertical, motor operated, one sliding panels with back panel; 3 m x 1.2 m		- Charles on a Charles	0.125 Labor Foreman 2.000 Carpenters 0.500 Electrician 1.000 Laborer 1.000 Power Tool	5.000	6.000	5.500	1.600
101 104-1550	Sliding chalkboard Vertical, motor operated, one sliding panels with back panel; 3 m x 4.8 m	П			4.000	5.000	4.500	2.000
101 104-1750	Chalkboard Vertical, motor operated, two sliding panels with back panel; 3 m x 1.2 m				5.000	6.000	5.500	1.600
101 104-1850	Chalkboard Vertical, motor operated, two sliding panels with back pane; 3 m x 4.8 m				4.000	5.000	4.500	2.000
101 104-2100	Chalkboard Vertical, motor operated, three sliding panels with back panel; 3 m x 1.2 m				4.500	5.000	4.750	1.778
101 104-2200	Chalkboard Vertical, motor operated, three sliding panels with back panel; 3 m x 4.8 m				3.500	4.000	3.750	2.286
101 104-3200	Chalkboard,swing leaf,any combination of chalkboard & cork,floor style, Aluminum frame 5 panels, 1.2 m x 1 m			0.125 Labor Foreman 2.000 Carpenters 1.000 Laborer 1.000 Power Tool	10.000	12.000	11.000	0.800
101 104-3450	Chalkboard, swing leaf, any combination of chalkboard & cork, wall mounted, Aluminum frame 5 panels, 1.2 m x 1 m				5.000	6.000	5.500	1.600
101 104-3900	Chalkboard, wall hung, Aluminum frame and chalktrough; 0.9 m x 1.2 m				17.000	20.000	18.500	0.471
101 104-4500	Chalkboard, wall hung, Aluminum frame and chalktrough; 1.2 m x 3.6 m				14.000	16.000	15.000	0.571
101 104-5000	Chalkboard, wall hung, Wood frame and chalktrough; 0.9 m x 1.5 m				17.000	20.000	18.500	0.471
101 104-5300	Chalkboard, wall hung, Wood frame and chalktrough; 1.2 m x 2.4 m			.	14.000	16.000	15.000	0.571
101 600	TOILET COMPARTMENTS							
101 602	PARTITIONS, TOILET							
101 602-0100	Cubicles, ceiling hung, marble		- 1	0.125 Labor Foreman 2.000 Tilers	2,000	2.000	2.000	4.000
		EA		1.000 Laborer 1.000 Power Tool	2.000			
	Cubicles, celling hung, Painted metal, plastic laminated, stainless steel or porcelain enamel	EA			5.000	6.000	5.500	1.600
101 602-0200		EA			25555	6.000	5.500 2.875	1.600
101 602-0200 101 602-0800	enamel Cubicles, Floor & Ceilling anchored, marble Cubicles, floor & ceilling anchored, Painted metal, plastic laminated, stainless steel or	EA			5.000	376-55	1000000	10000000
101 602-0200 101 602-0800 101 602-1000	enamel Cubicles, Floor & Ceilling anchored, marble Cubicles, floor & ceilling anchored, Painted metal, plastic laminated, stainless steel or porcelain enamel	EA			5.000 2.750 5.750	3.000 7.000	2.875 6.375	2.909
101 602-0200 101 602-0800 101 602-1000 101 602-1600	enamel Cubicles, Floor & Ceilling anchored, marble Cubicles, floor & ceilling anchored, Painted metal, plastic laminated, stainless steel or	EA .			5.000 2.750 5.750 3.250	3.000 7.000 4.000	2.875 6.375 3.625	2.909 1.391 2.462
101 602-0200 101 602-0800 101 602-1000 101 602-1600 101 602-1700	enamel Cubicles, Floor & Ceilling anchored, marble Cubicles, floor & ceilling anchored, Painted metal, plastic laminated, stainless steel or porcelain enamel Cubicles, Floor mounted marble Cubicles, floor mounted, Painted metal, plastic laminate, porcelain enamel, or stainless steel.	EA .			5.000 2.750 5.750 3.250 7.000	3.000 7.000 4.000 8.000	2.875 6.375 3.625 7.500	2.909 1.391 2.462 1.143
101 602-0200 101 602-0800 101 602-1000 101 602-1600 101 602-1700 101 602-3000	enamel Cubicles, Floor & Ceiling anchored, marble Cubicles, floor & ceiling anchored, Painted metal, plastic laminated, stainless steel or porcelain enamel Cubicles, Floor mounted marble Cubicles, floor mounted, Painted metal, plastic laminate, porcelain enamel, or stainless steel. Cubicles, Wall hung partitions, painted metal, porcelain enamel or stainless steel.	EA .			5.000 2.750 5.750 3.250 7.000	3.000 7.000 4.000 8.000 8.000	2.875 6.375 3.625 7.500 7.500	2.909 1.391 2.462 1.143 1.143
101 602-0200 101 602-0800 101 602-1000 101 602-1600 101 602-1700 101 602-3000 101 602-4000	ename! Cubicles, Floor & Ceiling anchored, marble Cubicles, floor & ceiling anchored, Painted metal, plastic laminated, stainless steel or porcelain ename! Cubicles, Floor mounted marble Cubicles, floor mounted, Painted metal, plastic laminate, porcelain enamel, or stainless steel. Cubicles, Wall hung partitions, painted metal, porcelain enamel or stainless steel. Screens, entrance, floor mounted, 1.4 m high, 1.2 m wide marble				5.000 2.750 5.750 3.250 7.000 7.000	3.000 7.000 4.000 8.000 8.000 12.000	2.875 6.375 3.625 7.500 7.500	2.909 1.391 2.462 1.143 1.143 0.800
01 602-0200 01 602-0800 01 602-1000 01 602-1600 01 602-1700 01 602-3000 01 602-4000 01 602-4300	enamel Cubicles, Floor & Ceiling anchored, marble Cubicles, floor & ceiling anchored, Painted metal, plastic laminated, stainless steel or porcelain enamel Cubicles, Floor mounted marble Cubicles, floor mounted, Painted metal, plastic laminate, porcelain enamel, or stainless steel. Cubicles, Wall hung partitions, painted metal, porcelain enamel or stainless steel. Screens, entrance, floor mounted, 1.4 m high, 1.2 m wide marble Screens, entrance, floor mounted, 1.4 m high, 1.2 m wide, plastic laminate on particle board				5.000 2.750 5.750 3.250 7.000 7.000 10.000	3.000 7.000 4.000 8.000 8.000 12.000 20.000	2.875 6.375 3.625 7.500 7.500 11.000 18.500	2.909 1.391 2.462 1.143 1.143 0.800 0.471
01 602-0200 01 602-0800 01 602-1000 01 602-1600 01 602-3000 01 602-3000 01 602-4000 01 602-4500	ename! Cubicles, Floor & Ceiling anchored, marble Cubicles, Floor & ceiling anchored, Painted metal, plastic laminated, stainless steel or porcelain ename! Cubicles, Floor mounted marble Cubicles, Floor mounted, Painted metal, plastic laminate, porcelain enamel, or stainless steel. Cubicles, Wall hung partitions, painted metal, porcelain enamel or stainless steel. Screens, entrance, floor mounted, 1.4 m high, 1.2 m wide marble Screens, entrance, floor mounted, 1.4 m high, 1.2 m wide, plastic laminate on particle board Screens, entrance, floor mounted, 1.4 m high, 1.2 m wide, stainless steel	EA			5.000 2.750 5.750 3.250 7.000 10.000 17.000 17.000	3.000 7.000 4.000 8.000 12.000 20.000	2.875 6.375 3.625 7.500 7.500 11.000 18.500	2.909 1.391 2.462 1.143 1.143 0.800 0.471
01 602-0200 01 602-0800 01 602-1000 01 602-1600 01 602-3000 01 602-3000 01 602-4000 01 602-4500	enamel Cubicles, Floor & Ceiling anchored, marble Cubicles, Floor & ceiling anchored, Painted metal, plastic laminated, stainless steel or porcelain enamel Cubicles, Floor mounted marble Cubicles, Floor mounted, Painted metal, plastic laminate, porcelain enamel, or stainless steel. Cubicles, Wall hung partitions, painted metal, porcelain enamel or stainless steel. Screens, entrance, floor mounted, 1.4 m high, 1.2 m wide marble Screens, entrance, floor mounted, 1.4 m high, 1.2 m wide, plastic laminate on particle board Screens, entrance, floor mounted, 1.4 m high, 1.2 m wide, stainless steel Urinal screen, 457 mm wide, ceiling braced, marble	EA			5.000 2.750 5.750 3.250 7.000 7.000 10.000	3.000 7.000 4.000 8.000 8.000 12.000 20.000 9.000	2.875 6.375 3.625 7.500 7.500 11.000 18.500 8.500	2.909 1.391 2.462 1.143 1.143 0.800 0.471 1.000
01 602-0200 01 602-0800 01 602-1000 01 602-1600 01 602-3000 01 602-4000 01 602-4000 01 602-4500 01 602-4600	ename! Cubicles, Floor & Ceiling anchored, marble Cubicles, Floor & ceiling anchored, Painted metal, plastic laminated, stainless steel or porcelain ename! Cubicles, Floor mounted marble Cubicles, Floor mounted, Painted metal, plastic laminate, porcelain enamel, or stainless steel. Cubicles, Wall hung partitions, painted metal, porcelain enamel or stainless steel. Screens, entrance, floor mounted, 1.4 m high, 1.2 m wide marble Screens, entrance, floor mounted, 1.4 m high, 1.2 m wide, plastic laminate on particle board Screens, entrance, floor mounted, 1.4 m high, 1.2 m wide, stainless steel	EA			5.000 2.750 5.750 3.250 7.000 10.000 17.000 17.000	3.000 7.000 4.000 8.000 12.000 20.000	2.875 6.375 3.625 7.500 7.500 11.000 18.500	2.909 1.391 2.462 1.143 1.143 0.800 0.471
01 602-0200 101 602-0800 101 602-1000 101 602-1600 101 602-1700 101 602-3000 101 602-4000 101 602-4500 101 602-4500 101 602-4700	ename! Cubicles, Floor & Ceiling anchored, marble Cubicles, floor & ceiling anchored, Painted metal, plastic laminated, stainless steel or porcelain ename! Cubicles, Floor mounted marble Cubicles, Floor mounted, Painted metal, plastic laminate, porcelain enamel, or stainless steel. Cubicles, Wall hung partitions, painted metal, porcelain enamel or stainless steel. Screens, entrance, floor mounted, 1.4 m high, 1.2 m wide marble Screens, entrance, floor mounted, 1.4 m high, 1.2 m wide, plastic laminate on particle board Screens, entrance, floor mounted, 1.4 m high, 1.2 m wide, stainless steel Urinal screen, 457 mm wide, ceiling braced, marble Urinal screen, 457 mm wide, ceiling braced, plastic laminate, porcelain enamel or	EA			5.000 2.750 5.750 3.250 7.000 7.000 10.000 17.000 17.000 8.000	3.000 7.000 4.000 8.000 8.000 12.000 20.000 9.000	2.875 6.375 3.625 7.500 7.500 11.000 18.500 8.500	2.909 1.391 2.462 1.143 1.143 0.800 0.471 1.000
101 602-0200 101 602-0800 101 602-1000 101 602-1600 101 602-3000 101 602-3000 101 602-4000 101 602-4500 101 602-4500 101 602-4500 101 602-4500 101 602-4500 101 602-4500	enamel Cubicles, Floor & Ceiling anchored, marble Cubicles, floor & ceiling anchored, Painted metal, plastic laminated, stainless steel or porcelain enamel Cubicles, Floor mounted marble Cubicles, Floor mounted, Painted metal, plastic laminate, porcelain enamel, or stainless steel. Cubicles, Wall hung partitions, painted metal, porcelain enamel or stainless steel. Screens, entrance, floor mounted, 1.4 m high, 1.2 m wide marble Screens, entrance, floor mounted, 1.4 m high, 1.2 m wide, plastic laminate on particle board Screens, entrance, floor mounted, 1.4 m high, 1.2 m wide, stainless steel Urinal screen, 457 mm wide, ceiling braced, marble Urinal screen, 457 mm wide, ceiling braced, plastic laminate, porcelain enamel or stainless steel.	EA			5.000 2.750 5.750 3.250 7.000 10.000 17.000 17.000 8.000 9.000	3.000 7.000 4.000 8.000 12.000 20.000 20.000 9.000	2.875 6.375 3.625 7.500 7.500 11.000 18.500 8.500 9.500	2.909 1.391 2.462 1.143 1.143 0.800 0.471 1.000 0.889
101 602-0200 101 602-0800 101 602-1000 101 602-1600 101 602-1700 101 602-3000 101 602-4000 101 602-4500 101 602-4500 101 602-4500 101 602-5200 101 602-5300	ename! Cubicles, Floor & Ceiling anchored, marble Cubicles, Floor & ceiling anchored, Painted metal, plastic laminated, stainless steel or porcelain ename! Cubicles, Floor mounted marble Cubicles, Floor mounted, Painted metal, plastic laminate, porcelain enamel, or stainless steel. Cubicles, Wall hung partitions, painted metal, porcelain enamel or stainless steel. Screens, entrance, floor mounted, 1.4 m high, 1.2 m wide marble Screens, entrance, floor mounted, 1.4 m high, 1.2 m wide, plastic laminate on particle board Screens, entrance, floor mounted, 1.4 m high, 1.2 m wide, stainless steel Urinal screen, 457 mm wide, ceiling braced, marble Urinal screen, 457 mm wide, ceiling braced, plastic laminate, porcelain enamel or stainless steel. Urinal screen, 457 mm wide, floor mounted, head rail braced	EA			5.000 2.750 5.750 3.250 7.000 10.000 17.000 17.000 8.000 9.000	3.000 7.000 4.000 8.000 8.000 12.000 20.000 9.000 10.000 9.000	2.875 6.375 3.625 7.500 7.500 11.000 18.500 8.500 9.500 8.500	2.909 1.391 2.462 1.143 1.143 0.800 0.471 1.000 0.889 1.000
101 602-0200 101 602-0800 101 602-1000 101 602-1600 101 602-3000 101 602-3000 101 602-3000 101 602-4500 101 602-4500 101 602-4500 101 602-5200 101 602-5200 101 602-5200 101 602-5300 101 602-6700	enamel Cubicles, Floor & Ceiling anchored, marble Cubicles, Floor & ceiling anchored, Painted metal, plastic laminated, stainless steel or porcelain enamel Cubicles, Floor mounted marble Cubicles, Floor mounted marble Cubicles, Floor mounted, Painted metal, plastic laminate, porcelain enamel, or stainless steel. Cubicles, Wall hung partitions, painted metal, porcelain enamel or stainless steel. Screens, entrance, floor mounted, 1.4 m high, 1.2 m wide marble Screens, entrance, floor mounted, 1.4 m high, 1.2 m wide, plastic laminate on particle board Screens, entrance, floor mounted, 1.4 m high, 1.2 m wide, stainless steel Urinal screen, 457 mm wide, ceiling braced, marble Urinal screen, 457 mm wide, floor mounted, head rail braced Urinal screen, 457 mm wide, floor mounted, head rail braced, painted metal	EA			5.000 2.750 5.750 3.250 7.000 10.000 17.000 17.000 8.000 9.000 8.000	3.000 7.000 4.000 8.000 12.000 20.000 9.000 10.000 9.000	2.875 6.375 3.625 7.500 7.500 11.000 18.500 8.500 9.500 9.500	2.909 1.391 2.462 1.143 1.143 0.800 0.471 1.000 0.889 1.000 0.889

	N 10:SPECIALTIES	Total Control	C	REW	D. O.	Official Control of the Control of t	D. O.	AVRG.
CODE	ITEM DESCRIPTION	UNIT	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CTURE	MIN.	D. O. MAX.	AVRG.	E.H.
1 852-0100	Shower cabinet,floor mounted,no plumbing,including base no door, painted steel, 25 mm thick walls	EA	0.125 Labor Foreman 2,000 Sheet Metal Workers 1,000 Laborer 1,000 Power Tools 1,000 Tools Set		4.500	5.000	4.750	3.556
1 852-0300	Shower cabinet, floor mounted no plumbing, including base & fiberglass door, painted steel, 25 mm thick walls	EA	0.125 Labor Fo 2.000 Sheet Me 1.000 Laborer 1.000 Power To 1.000 Tools Set	tal Workers ols	4.000	5.000	4.500	4.000
1 852-0600	Shower cabinet, floor mounted, no plumbing, including base & door,				4.500	5.000	4.750	3.556
	painted steel, 25 mm thick walls Shower stall, 25 mm thick wall, no base, Porcelain enameled steel.				4.500	5.000	4.750	3.55
1 852-1500	Shower pakings circular fibernlass, floor mounted no plumbing no door,				3.500	4.000	3 750	4.57
CINIASTRADA IN MARKE	Shower cabinet circular fiberniass, floor mounted w/door & no plumbing.				2.000	3.000	2.500	8.00
1 852-1800	915 mm diameter	-			2.000	3.000	2,500	8.00
01 852-2400	Shower cabinet,glass stalls,floor mounted with doors, no plumbing, chrome on brass. Shower cabinet,glass stalls,floor mounted with doors, no plumbing, Anodized	-			3.000		3.500	5.33
01 852-2700	aluminium.	\vdash	0.125 Labor Fo 2.000 Tilers	reman	1.000		1.000	8.00
01 852-290	Marble shower stall,floor mounted,no plumbing, stock design, with shower door		1.000 Laborer 1.000 Power T 0.125 Labor Fr				aloules	
01 852-410	Shower doors, economy plastic, 610 mm wide		1,000 Sheet M 1,000 Labore: 1,000 Tools Se	5073. HC	12.000		13.000	0.66
01 852-420	Shower Door Tempered glass, economy				10.000		11.000	0.80
01 852-450	Shower Door, Sliding, tempered glass, 1219 mm opening				8.000	2 SECTION 1	8.500	1.00
01 852-470	Shower Door, Deluxe, tempered glass, chrome on brass frame, average				6.000	7.000	6.500	1,33
01 852-512	O Shower enclosure floor mounted, no plumbing, tempered glass, anodized alum. frame 2 panel & door, corner unit, 815 mm x 815 mm			.	2.50	3.000	2.750	3.2
01 852-520	0 Shower surround,floor mounted,no plumbing, 3 wall, polypropylene, 815 mm x 815 mm		0.125 Labor Foreman 1.000 Carpenter 1.000 Laborer 1.000 Power Tool		8.00	9.000	8.500	1.0
01 852-525	50 Shower surround,floor mounted, 2 wall, polypropylene, 815 mm x 815 mm			349	8.00	9.000	8.500	1.0
	Tub door, tempered glass & frame, average		0.125 Labor Foreman 1.000 Sheet Metal Worker 1.000 Laborer 1.000 Tools Set		10.00	0 12.000	11.000	0.8
01 852-590	Tub/shower enclosure,floor mounted tempered glass, alum. frame, Average			>0)	3.00	0 4.000	3.500	2.6
01 852-590	Tub/shower enclosure,floor mounted tempered glass, chrome-plated				3.00	0 4.000	3.500	2.6
	brass frame, Average Tub surround,floor mounted,no plumbing, 3 wall, fiberglass, Average		0.125 Labor Foreman 2.000 Carpenters 1.000 Laborer		5.00	6.000	5.500	1.6
102 102 100 102 104	LOUVERS, CORNER PROTECTION & ACCESS FLOORIN METAL WALL LAVOURS LOUVERS	G	1.000 Power					
	DO Louvers, aluminum with screen, residential, 300 mm x 300 mm	EA	0.125 Labor 1 2.000 Carper 1,000 Labore 1,000 Power	fer r	30.00	35.000	32.500	0.2
102 104-20	00 Louvers aluminum with screen, residential, 300 mm x 457 mm	T			26.00	30.000	28.000	0.3
THE RESERVE TO A STATE OF THE PARTY OF THE P	00 Louvers aluminum with screen, residential, 356 mm x 610 mm				22.00	25.000	23.500	0.3
Andreas Avenue Angres	00 Louvers aluminum with screen, residential, 457 mm x 610 mm				20.00	23.000	21.500	0.4
	00 Louvers aluminum with screen, residential, 610 mm x 762 mm				18.00	21.000	19.500	0.
	00 Louvers aluminum, Triangle, Adjustable, average				16.0	00 18.000	17,000	0.
Aller Schiller	00 Louvers, Midget, aluminum, 20 mm deep, 25 mm diameter				50.0	58.000	54.000	C
	50 Louvers, Midget, aluminum, 20 mm deep, 76 mm diameter				35.0	40.000	37.500	0.
	00 Louvers, Midget, aluminum, 20 mm deep. 100 mm diameter				30.0	00 35.000	32.500	-
	50 Louvers, Midget, aluminum, 20 mm deep, 150 mm diameter	1	7	+	20.0	00 23.000	21,500	0
	Ridge vent louver strip, mill finish	LN	0.125 Labor Foreman 1.000 Sheet Metal Worker 1.000 Laborer 1.000 Tools Set		55.0	00 63.000	59.000	0
102 104-23	S30 Soffit vent,continuous louver, 76 mm wide,aluminum	E	0.125 Labor	Foreman nte: er	65.0	00 75 000	70 000	1 2
		-	100000000000000000000000000000000000000		20.0	00 35.00	32.500	0.
100 101 70	000 Vinyl gable vent louver, 200 mm x 200 mm or 300 mm x 300 mm	- 1			30.0	00 35.00	04.000	

CSI CODE	ITEM DESCRIPTION	UNIT	. CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E.H.
102 104-7200	Vinyl gable vent louver, 356 mm x 610 mm	1	T I	22 000	25.000	23.500	0.36
102 600	WALL & CORNER GUARDS						
102 604	CORNER GUARDS						
102 604-0010	Corner guard, steel angle, 25 mm x 25 mm x 6 mm, 2.2 kg/m	LM	0.375 Struc. Steel Foreman 2.000 Struc. Steel Workers 1.000 Steel Weider 2.000 Laborers 1.000 Gas Welding Machine 1.000 Power Tool	60.000	69.000	64.500	0.26
102 604-0200	Comer guards, steel angle, 76 mm x 76 mm x 8 mm, 9.0 kg/m			52.000	60.000	56.000	0.308
102 604-0300	Corner guards, steel angle, 100 mm x 100 mm x 8 mm, 12 kg/m	1		45.000	52.000	48.500	0.356
102 604-0500	Cast iron wheel guards, 915 mm high	EA		16.000	18.000	17.000	1.000
102 604-0600	Cast iron wheel guards, 1524 mm high	П		11,000	13.000	12.000	1,455
102 604-0800	Pipe bumper for truck doors, 2.4m long, 200 mm diameter [8"], filled.		1	12.000	14.000	13.000	1.333
102 608	CORNER PROTECTION	In the same	- New to-serve				
102 608-0100	Corner Protection, Stainless steel, 16 ga., adhesive mount, 89 mm leg	LM	0 125 Labor Foreman 1,000 Structural Steel Worker 1,000 Power Tool	20.000	23.000	21.500	0.400
102 608-0200	Corner Protection, Stainless steel, 12 ga., adhesive mount, 89 mm leg			20.000	23.000	21.500	0.400
102 608-0300	Corner Protection, Stainless steel, 12 ga., Screw mount, 89 mm leg		1	17.000	20.000	18.500	0.471
102 608-0500	Corner Protection, Vinyl acrylic, adhesive mount, 76 mm leg		1.000 Labor Foreman 1.000 Carpenter 1.000 Laborer 1.000 Power Tool	45.000	52.000	48.500	0.178
102 608-0600	Comer Protection, Vinyl acrylic, screw mounted, 76 mm leg			28.000	32.000	30.000	0.286
102 608-0700	Corner Protection, Clear plastic, screw mounted, 64 mm			21.000	24.000	22.500	0.381
102 608-1000	Comer Protection, Vinyl cover, aluminum retainer, surface mount, 76 mm x 76 mm			17.000	20.000	18.500	0.471
102 608-1100	Corner Protection, Vinyl cover, aluminum retainer, flush mount, 76 mm x 76 mm		**	11.000	13.000	12.000	0.727
102 612	WALLGUARD						
102 612-0500	Wall guard rail, neoprene, aluminum backing, 38 mm x 51 mm	LM	0.125 Labor Foreman 1.000 Carpenter 1.000 Laborer 1.000 Power Tool	45.000	52.000	48.500	0,178
102 612-1200	Wall Guard, Bed bumper, vinyl acrylic, aluminum retainer, 530 mm long	EA		10.000	12.000	11.000	0.800
102 612-1300	Wall Guard, Bed bumper, vinyl acrylic, aluminum retainer, 1340 mm long with aligner	160		8.000	9.000	8.500	1.000
102 612-2000	Wall Guard, Crash rail, vinyl cover, alum. retainer, 25 mm x 200 mm	LM		25.000	29.000	27.000	0.320
102 612-3010	Wall Guard, Handrall/bumper, Vinyl cover, aluminum retainer, flat rail, bracket mounted, 140 mm	#5	L	22.000	25.000	23.500	0.364
102 700	ACCESS FLOORING			1			
102 705	PEDESTAL ACCESS FLOORS						
102 705-0020	Access floor,particle board or steel panels, no covering, 600 mm x 600 mm x 55 mm on snap prop stringers 200 mm high,less than 600 m2	SQM	0.125 Labor Foreman 2.000 Carpenters 1,000 Laborer 1.000 Levelling Laser tools	25.000	29.000	27.000	0.320
102 705-0100	Access floor,particle board with metal covering, 600 mm x 600 mm x 55 mm on snap prop stringers 200 mm high, over 600 m2			30.000	35.000	32.500	0.267
02 705-0300	Access floor,aluminum panels 600 mm x 600 mm on stringers 200 mm high			35.000	40.000	37.500	0.229
02 705-0400	Access floor,steel panels with carpet covering on stringer 600 mm high			25.000	29.000	27.000	0.320
02 705-0700	Access floor, steel panels with high pressure laminate covering, stringers 600 mm high			25.000	29.000	27.000	0.320
	Access floor, extra heavy duty steel panels 600 mm x 600 mm x 64 mm with vinyl covering, stringer up to 600 mm high		0.4	20.000	23.000	21.500	0.400
Contract of the Contract of	Access floor, fire stop, 900 mm long, upto 600 mm high	EA		32.000	37.000	34.500	0.250
N. 100 Co. 100	Machine cutout in access floor			15.000	17.000	16.000	0.533
02 705-1100	Air conditioning grille cutout 300 mm x 300 mm	\pm	7	-15.000	17.000	16.000	0.533
	Access floor approach ramp, average	SQM		8.000	9.000	8.500	1.000
	FIREPLACES, EXT. SPECIALISTS & FLAGPOLES	273402111	•	1000000	1,000-0,000		
DAY-SRIEN	PREFABRICATED FIREPLACES	_					
	FIREPLACE, PREFABRICATED						
OSC SOCIONALS	Fireplace, prefabricated free sanding or wall hung with hood & screen, Average	EA	0.125 Lebor Foreman 1,000 Carpenter 1,000 Leborer 1,000 Power Tools	1.500	2.000	1.750	5.333
		LM		9.000	10.000	9.500	0.889
03 050-0500	Fireplace, chimney, double wall, stainless steel, over 2.6 m, 180 mm diameter.	LM					
	Fireplace, chimney, double wall, stainless steel, over 2.6 m, 180 mm diameter. Fireplace, chimney, double wall, stainless steel, over 2.6 m, 250 mm diameter	LM	1	8.500	10.000	9.250	0.941

CSI	N 10:SPECIALTIES		CREW	D. O.		D. O.	AVRG.
CODE	ITEM DESCRIPTION	UNIT	STRUCTURE	MIN.	D. O. MAX.	AVRG.	E.H.
103 050-0800	Fireplace, chimney, double wall, stainless steel, over 2.6 m, 356 mm diameter	1		7.500	9.000	8.250	1.0
103 050-2000	Fireplace, built-in, 915 mm hearth, radiant	EA		1.500	2.000	1.750	5.33
103 050-2400	Fireplace, built-in, 1.2 m hearth, radiant			1.250	2.000	1.625	6.40
103 050-2500	Fireplace, built-in, 1.2 m hearth, radiant, with recirculating fan			0.900	1.000	0.950	8.88
103 460	CUPOLAS			-			2 33.00
103 450-0300	Cupola, Prefabricated, stock unit, pine, 585 mm square, 840 mm high, aluminium roof.	EA	0 125 Labor Foreman 1,000 Carpertier 1,000 Laborer 1,000 Power Tool	4.000	5.000	4.500	2.00
103 460-0400	Cupola, Prefabricated, stock unit, pine, 585 mm square, 840 mm high, copper roof.		TANKS FUNDS 1001	3.500	4.000	3.750	2.28
103 460-1000				3.500	4.000	3.750	2.28
103 460-0300	Cupola, Pretabricated, stock unit, fiberglass, 1.8 m base, 1.7 m high.			4.000	5.000	4.500	2.00
103 520	GROUND SET FLAGPOLES						
103 524	FLAGPOLE Not including base or foundation						
12.555.00.0	Total deligned by the state of		0:125 Labor Foreman	1			
103 524-0100	Flagpole, Aluminum, tapered, ground set 6 m high	EA	1.000 Skilled Laborer 1.000 Common Laborer 1.000 Equipment Operator 1.000 Crane 11 Ton	3.000	4.000	3.500	2.66
103 524-0300	Flagpole, Aluminum, tapered, ground set 9 m high			2.250	3.000	2.625	3.55
103 524-0600	Flagpole, Aluminum, tapered, ground set 15 m high			1.500	2.000	1.750	5.33
103 524-0800	Flagpole, Aluminum, tapered, ground set 21 m high			1.200	2.000	1,600	6.66
103 524-3000	Flagpole, Fiberglass, tapered, ground set, 7.0 m high			3.000	4.000	3.500	2.66
103 524-3300	Flagpole, Fiberglass, tapered, ground set, 12.0 m high			1.750	2.000	1.875	4.57
103 524-3400	Flagpole, Fiberglass, tapered, ground set, 15 m high			1.500	2.000	1.750	5.33
103 524-3500	Flagpole, Fiberglass, tapered, ground set, 18.0 m high			1.400	2.000	1.700	5.71
103 524-4700	Flagpole,concrete, direct imbedded installation, internal halyard, 12 m high			3.000	4.000	3.500	2.66
103 524-5000	Flagpole,concrete, direct imbedded installation,internal halyard, 18 m high			2.500	3.000	2.750	3.20
later-screwing was surprised	Flagpole.concrete, direct imbedded installation,internal halyard, 24 m high		T L	2.000	3.000	2.500	4.00
103 524-6800	Flag pole, wood poles, tapered, clear vertical grain fir with tilting base, no foundation, 150 mm butt, 9 m high		0.125 Labor Foreman 2.000 Skilled Laborer 2.000 Common Laborer 1.000 Equipment Operator 1.000 Crane 11 Ton	3.000	4.000	3.500	2.66
103 524-7300	Foundation for flagpoles, including excavation and concrete, to 10.7 m high poles		0.125 Labor Foreman 3.000 Carpenters 1.000 Steel Fixer 2.000 Laborers 0.125 Equipment Operator 1.000 Excavator	10.000	12.000	11.000	1.600
103 524-7600	Foundations for flagpoles, including excavation and concrete, to 12 m to 15 m high poles			3.250	4.000	3.625	4.923
103 524-7700	Foundations for flagpoles, including excavation and concrete, over 18 m high poles			1.750	2.000	1.875	9.143
103 540	WALL MOUNTED FLAGPOLES	•	L	1.750	2.000	1.075	5.14
103 544	FLAGPOLE						
O.M. C.	Flagpole structure mounted, fiberglass, vertical wall set, 7 m long	EA	0.125 Labor Foreman 1.000 Skilled Laborer 1.000 Common Laborer 1.000 Equipment Operator 1.000 Crane 11 Ton	2.000	2.000	2.000	4.000
103 540-1300	Flagpole structure mounted, aluminum, vertical wall set, tapered, with base 6 m		SWE	1.750	2.000	1.875	4.571
104	IDENTIFYING & PEDESTRIAN CONTROL DEVICES		le de la companya de		A	ALL INC.	5540
104 100	DIRECTORIES						
104 104	DIRECTORY BOARDS		7				
04 104-0010	Directory boards, plastic, glass covered, 760 mm x 500 mm	EA	0.125 Labor Foreman 2.000 Carpenters 1.000 Laborer 1.000 Power Tool	4.000	5.000	4.500	2 000
04 104-0100	Directory boards, plastic, glass covered, 914 mm x 1220 mm			2.500	3.000	2.750	3.200
	Directory boards, grooved cork,glass covered, 914 mm x 1220 mm	\top		4.000	5.000	4.500	2.000
STATE STATE OF STATE OF	Directory boards, black felt, glass covered, 760 mm x 500 mm	-		4.000	5.000	4.500	2.00.
-	Directory boards, plastic, glass covered, black felt, 914 mm x 1220 mm			2.500	3.000	2./5	9.24
	Directory boards, outdoor, weatherproof, black plastic, 914 mm x 610 mm			2.500	3,000	2.750	3.2
CHURCHEN COCHE	Directory boards, outdoor, weatherproof, black plastic, 914 mm x 914 mm			2.000	2.000	2.000	4.000
		1	the state of the s				

CSI	ITEM DESCRIPTION	UNI	Т	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E.H.
04 104-1900	Directory boards, indoor,open face, 610 mm x 914 mm				6.000	7.000	6.500	1.33
04 104-2100	Directory boards,indoor,open face, 914 mm x 1219 mm				5.000	6.000	5.500	1.600
04 104-2400	Building directory, aluminum, black felt panels, 1 door, 610 mm x 457 mm				3.000	3.000	3.000	2.667
04 104-2600	Building directory, aluminum, black felt panels, 1 door, 1220 mm x 815 mm				2.500	3.000	2.750	3.200
104 104-2700	Building directory, aluminum, black felt panels, 2 doors, 914 mm x 1220 mm				2.000	2.000	2.000	4.000
104 104-2900	Building directory, aluminum, black felt panels, 2 doors, 1220 mm x 1524 mm				1.000	1.000	1.000	8.000
104 150	BULLETIN BOARDS							
104 151	BULLETIN BOARD							
104 151-0100	Bulletin board,Cork sheets, unbacked, no frame, upto 13 mm thick	sai	4	0.125 Labor Foreman 2.000 Carpenters 1.000 Laboret 1.000 Power Tool	25.000	29.000	27.000	0.320
104 151-1200	Bulletin board,6 mm vinyl cork, on 6 mm hardboard, no frame				25.000	29.000	27.000	0.320
104 151-2120	Bulletin board, Prefabricated, 6 mm cork, 914 mm x 1524 mm with frame	EA	7		15.000	17.000	16.000	0.533
104 151-2200	Bulletin board, Pretabricated, 6 mm cork, 1.2 m x 2.4 m with frame				12.000	14.000	13.000	0.667
104 151-2220	Bulletin board, Prefabricated, 6 mm cork, 1.2 m x 3.6 m with frame				10.000	12.000	11,000	0.800
104 151-2240	Bulletin board case, single glass door, with lock 914 mm x 610 mm				10.000	12.000	11.000	0.800
104 151-2400	Bulletin board,glass enclosed cabinets, aluminum, cork panel,				10.000	12.000	11.000	0.800
	Rulletin hoard Glass enclosed cabinet aluminum, cork nanel, hinged	++			9.000	10.000	9.500	0.889
104 151-2500	doors, 1.2 m x 1.2 m, 2 doors	+	-		8.000	Solomor	es consti	- continu
104 151-2600	Bulletin board, Glass enclosed cabinets, aluminum, cork panel, hinged doors, 1.2 m x 2.1 m, 3 doors				8.000	9.000	8.500	1.000
104 151-2800	Bulletin board, Glass enclosed cabinets, aluminum, cork panel, hinged doors, 1.2 m x 3 m, 4 doors & 4 lights				6.000	7.000	6.500	1,333
104 155	CONTROL BOARDS	1 1			-			
104 155-0100	Control board, Magnetic, porcelain finish, 610 mm x 914 mm	EA	- 1	0.125 Labor Foreman 2.000 Carpenters 1.000 Laborër 1.000 Power Tool	7.000	8.000	7,500	1.143
104 155-0300	Control board, Magnetic, porcelain finish, 1.2 m x 1.8 m				5.000	6.000	5.500	1,600
04 155-0400	Control board,Magnetic, porcelain finish, 1,2 m x 2,4 m		7		4.000	5.000	4.500	2.000
104 300	SIGNS	1	10.00					
04 304	SIGNS:							
104 304-0100	Sign,cast aluminum or bronze,with 100 mm high & 13 mm deep letters	EA		0.125 Labor Foreman 1.000 Carpenter 1.000 Laborer 1.000 Power Tool	25.000	29.000	27.000	0.320
104 304-0600	Sign,cast aluminum or bronze,with 200 mm high & 20 mm deep letters				15.000	17.000	16.000	0.533
104 304-1200	Sign,cast aluminum or bronze, with 300 mm high & 20 mm deep letters				10.000	12.000	11.000	0.800
104 304-1600	Sign,cast aluminum or bronze, with 356 mm high & 60 mm deep letters				10.000	12.000	11.000	0.800
104 304-1800	Sign, Fabricated stainless steel, with 152 mm high, 50 mm deep letters				15.000	17.000	16.000	0.533
104 304-2100	Sign, Fabricated stainless steel, with 457 mm high, 76 mm deep letters	\top	7		10.000	12.000	11.000	0.800
104 304-2200	Sign, Fabricated stainless steel, with 610 mm high, 100 mm deep, letters				8.000	9.000	8.500	1.000
104 304-4800	Signs, reflective aluminum street signs, double face, 2-way or 4-way with bracket	+			15.000	17.000	16.000	0.533
104 304-5100	Exit signs, 24 ga. aluminum, 250 mm x 180 mm surface mounted				20.000	23.000	21.500	0.400
Mark Committee of the	TURNSTILES			1				
104 560	V = 410, 100, 100, 100, 100, 100, 100, 100,							
104 560	TURNSTILES							- 3
104 561	TURNSTILES Turnstiles one way, 4 arm, 1.1 m diameter, electric	EA		0.125 Labor Foreman 2.000 Carperters 0.500 Electrician 1.000 Laborer 1.000 Power Tool	1.250	1.000	1.125	6.400
1 04 561	Δ	EA		2,000 Carpenters 0,500 Electrician 1,000 Laborer	1,250	1.000	1.125	6.400
04 561-0100 04 561-0300	Turnstiles one way, 4 arm, 1.1 m diameter, electric	EA		2,000 Carpenters 0,500 Electrician 1,000 Laborer				100,0000
04 561-0100 04 561-0300 04 561-0350	Turnstiles one way, 4 arm, 1.1 m diameter, electric Turnstiles, High security, galv., 1.6 m diameter, 2.1 m high, manual	EA		2,000 Carpenters 0,500 Electrician 1,000 Laborer	1.250	1.000	1.125	6.400
104 561 104 561-0100 104 561-0300 104 561-0350 104 561-0420	Turnstiles, High security, galv., 1.6 m diameter, 2.1 m high, manual Turnstiles, High security, galv., 1.6 m diameter, 2.1 m high, electric	EA		2,000 Carpenters 0,500 Electrician 1,000 Laborer	1.250 0.750	1.000	1.125	6.400
104 561-0100 104 561-0300 104 561-0350 104 561-0420 104 561-0420	Turnstiles, High security, galv., 1.6 m diameter, 2.1 m high, manual Turnstiles, High security, galv., 1.6 m diameter, 2.1 m high, electric Turnstiles, Three arm, 610 mm opening, light duty, manual	EA		2,000 Carpenters 0,500 Electrician 1,000 Laborer	1.250 0.750 2.250	1.000 1.000 3.000	1.125 0.875 2.625	6.400 10.667 3.556
04 561-0100 04 561-0300 04 561-0350 04 561-0420 04 561-0450 04 561-0450	Turnstiles, High security, galv., 1.6 m diameter, electric Turnstiles, High security, galv., 1.6 m diameter, 2.1 m high, manual Turnstiles, High security, galv., 1.6 m diameter, 2.1 m high, electric Turnstiles, Three arm, 610 mm opening, light duty, manual Turnstiles, Three arm, 610 mm opening, heavy duty, manual Turnstiles, one way gate with horizontal bars, 1.6 m diameter, 7.2.1 m high.			2,000 Carpenters 0,500 Electrician 1,000 Laborer	1.250 0.750 2.250 1.500	1.000 1.000 3.000 2.000	1.125 0.875 2.625 1.750	6.400 10.667 3.556 5.333
104 561-0100 104 561-0300 104 561-0350 104 561-0420 104 561-0450 104 561-0450	Turnstiles, High security, galv., 1.6 m diameter, electric Turnstiles, High security, galv., 1.6 m diameter, 2.1 m high, manual Turnstiles, High security, galv., 1.6 m diameter, 2.1 m high, electric Turnstiles, Three arm, 610 mm opening, light duty, manual Turnstiles, Three arm, 610 mm opening, heavy duty, manual Turnstiles, one way gate with horizontal bars, 1.6 m diameter 7 2.1 m high. LOCKERS, PROTECTIVE COVERS & POSTAL SPECIALT			2,000 Carpenters 0,500 Electrician 1,000 Laborer	1.250 0.750 2.250 1.500	1.000 1.000 3.000 2.000	1.125 0.875 2.625 1.750	6.400 10.667 3.556 5.333
104 561-0100 104 561-0300 104 561-0350 104 561-0420 104 561-0450 104 561-0450 105 050	Turnstiles, High security, galv., 1.6 m diameter, electric Turnstiles, High security, galv., 1.6 m diameter, 2.1 m high, manual Turnstiles, High security, galv., 1.6 m diameter, 2.1 m high, electric Turnstiles, Three arm, 610 mm opening, light duty, manual Turnstiles, Three arm, 610 mm opening, heavy duty, manual Turnstiles, one way gate with horizontal bars, 1.6 m diameter, 7.2.1 m high.			2,000 Carpenters 0,500 Electrician 1,000 Laborer	1.250 0.750 2.250 1.500	1.000 1.000 3.000 2.000	1.125 0.875 2.625 1.750	6.400 10.667 3.556 5.333

CSI	ITEM DESCRIPTION	UN	ΗТ	CREW	D. O.	D. O. MAX.	D. O.	AVRG.
CODE		101		STRUCTURE	MIN.	Anna do o cracas ao	AVRG.	E.H.
	D Locker, Steel, baked enamel, 5 tier box lockers, 1.5 m or 1.8 m total height. Average	Ш			20.000	23.000	21.500	0.4
105 050-0900	Locker, Steel, baked enamel, 6 tier box lockers, 1.5 m or 1.8 m total height, Average	+			25.000	29.000	27.000	0.33
105 050-2500	Locker units for 16-persons with clothing rack, 70 mm wide x 380 mm deep x 1.8 m high	E	A		7.000	8.000	7.500	1_14
105 050-3100	Wall mounted lockers,4 persons with coat bar, 1.2 m wide x 457 mm deep x 305 mm high				7.000	8.000	7.500	1.12
105 380	CANOPIES				-			
105 384	CANOPIES							
105 384-0010	Canopy,Wall hung, aluminum, 0.8 mm prefinished, 2.4 m x 3 m	EA	A	0 125 Labor Foreman 2 000 Skilled Laborer 2 000 Common Laborer 1 000 Equipment Operator 1 000 Crane 11 Ton	1.500	2.000	1.750	5.33
105 384-0700	Canopy, Wall hung, aluminum, 0.8 mm prefinished, 3 m x 6 m	E	A	0.125 Labor Foreman 2.000 Skilled Laborer 2.000 Common Laborer 1.000 Equipment Operator 1.000 Crane 11 Ton	1.250	1.000	1.125	6.40
105 384-1700	Canopy Wall hung, aluminum, 0.8 mm prefinished, 3 m x 12 m				0.650	1.000	0.825	12.30
105 384-1720	Canopy,free standing unit,aluminum,0.8mm,prefinished, 3 m & 6 m				1,100	1.000	1.050	7.27
105 384-1780	Canopy free standing unit, aluminum, 0.8mm, prefinished, 3 m & 12 m			+	0.500	1.000	0.750	16.00
105 384-2500	Aluminum entrance canopies, flat soffit, 0.8 mm, 1,1 m x 1.2 m, clear or bronze anodized		0.000	0.125 Labor Foreman 2.000 Carpenters 1.000 Laborer 1.000 Power Tool	3.500	4.000	3.750	2.28
105 384-3300	Aluminum entrance canopies, flat soffit, 0.8 mm, 1.4 m x 3 m, clear or bronze anodized				1.500	2.000	1.750	5.33
105 384-4700	Canvas awnings, including canvas, frame & lettering, Average	SQ	м		7.000	8.000	7.500	1.14
	Carport, baked vnyl finish, 0.8 mm, 6.1 m x 3.00 m, no foundations. Average	CAI		0 125 Labor Foreman 2 000 Skilled Laborer 2 000 Common Laborer 1 000 Equipment Operator 1 000 Crane 11 Ton	3.500	4.000	3.750	2.28
105 384-7500	Walkway cover, to 3.6 m wide, steel with vinyl finish 0.8 mm no foundations, Average	SQI	M.	0557	20.000	23.000	21.500	0.40
105 510	MAIL CHUTES							
105 511	MAIL CHUTES							
105 511-0010	Mail Chutes, Aluminum & glass, 360 mm wide, 117 mm deep			0 125 Labor Foreman 2 000 Sheet Metal Workers				4.000
	Se and the second secon	FLOC		1.000 Laborer 1.000 Tools Set 1.000 Power Tool	4.000	5.000	4.500	
	Mail Chutes, Aluminum & glass, 362 mm wide, 220 mm deep	FLOC		1 000 Tools Set	4.000 3.750	4.000	4.500 3.875	4.267
105 511-0100	94 6947 W 953942 W.C. WASSESSES	FLOC		1 000 Tools Set		40708000	- 2000000	
105 511-0100 105 511-0300	Mail Chutes, Aluminum & glass, 362 mm wide, 220 mm deep	FLOC		1 000 Tools Set	3.750	4.000	3.875	3.200
105 511-0100 105 511-0300 105 511-0400	Mail Chutes, Aluminum & glass, 362 mm wide, 220 mm deep Mail Chutes, Aluminum & glass, 220 mm wide, 90mm deep	FLOC		1 000 Tools Set	3.750 5.000	4.000 6.000	3.875 5.500	3.200 4.000
105 511-0100 105 511-0300 105 511-0400 105 511-0600	Mail Chutes, Aluminum & glass, 362 mm wide, 220 mm deep Mail Chutes, Aluminum & glass, 220 mm wide, 90mm deep Mail Chutes, Bronze or stainless, 220 mm x 90 mm deep			1 000 Tools Set	3.750 5.000 4.000	4.000 6.000 5.000	3.875 5.500 4.500	3.200 4.000 3.200
105 511-0100 105 511-0300 105 511-0400 105 511-0600	Mail Chutes, Aluminum & glass, 362 mm wide, 220 mm deep Mail Chutes, Aluminum & glass, 220 mm wide, 90mm deep Mail Chutes, Bronze or stainless, 220 mm x 90 mm deep Mail chutes, lobby collection boxes, aluminum	EA		1 000 Tools Set	3.750 5.000 4.000 5.000	4.000 6.000 5.000 6.000	3.875 5.500 4.500 5.500	3.200 4.000 3.200
105 511-0100 105 511-0300 105 511-0400 105 511-0600 105 511-0700	Mail Chutes, Aluminum & glass, 362 mm wide, 220 mm deep Mail Chutes, Aluminum & glass, 220 mm wide, 90mm deep Mail Chutes, Bronze or stainless, 220 mm x 90 mm deep Mail chutes, lobby collection boxes, aluminum Mail chutes, lobby collection boxes, bronze or stainless	EA		1 000 Tools Set	3.750 5.000 4.000 5.000	4.000 6.000 5.000 6.000	3.875 5.500 4.500 5.500	4.267 3.200 4.000 3.200 4.000
105 511-0100 105 511-0300 105 511-0400 105 511-0600 105 511-0700	Mail Chutes, Aluminum & glass, 362 mm wide, 220 mm deep Mail Chutes, Aluminum & glass, 220 mm wide, 90mm deep Mail Chutes, Bronze or stainless, 220 mm x 90 mm deep Mail chutes, lobby collection boxes, aluminum Mail chutes, lobby collection boxes, bronze or stainless MAIL BOXES	EA		1 000 Tools Set	3.750 5.000 4.000 5.000	4.000 6.000 5.000 6.000	3.875 5.500 4.500 5.500	3.200 4.000 3.200 4.000
105 511-0100 105 511-0300 105 511-0400 105 511-0600 105 511-0700 105 520 105 521	Mail Chutes, Aluminum & glass, 362 mm wide, 220 mm deep Mail Chutes, Aluminum & glass, 220 mm wide, 90mm deep Mail Chutes, Bronze or stainless, 220 mm x 90 mm deep Mail chutes, lobby collection boxes, aluminum Mail chutes, lobby collection boxes, bronze or stainless MAIL BOXES MAIL BOXES Mail box Horiz, key lock, 127 mm high x 150 mm wide x 380 deep,	EA.		0.000 Tools Set 1.000 Power Tool 0.125 Labor Foreman 1.000 Carpenter 1.000 Carpenter	3.750 5.000 4.000 5.000 4.000	4.000 6.000 5.000 6.000 5.000	3.875 5.500 4.500 5.500 4.500	3.200 4.000 3.200 4.000
105 511-0100 105 511-0300 105 511-0400 105 511-0600 105 511-0700 105 520 105 521 105 520-0010 105 521-0200	Mail Chutes, Aluminum & glass, 362 mm wide, 220 mm deep Mail Chutes, Aluminum & glass, 220 mm wide, 90mm deep Mail Chutes, Bronze or stainless, 220 mm x 90 mm deep Mail chutes, lobby collection boxes, aluminum Mail chutes, lobby collection boxes, bronze or stainless MAIL BOXES MAIL BOXES Mail box Horiz., key lock, 127 mm high x 150 mm wide x 380 deep, rear or front loading	EA.		0.000 Tools Set 1.000 Power Tool 0.125 Labor Foreman 1.000 Carpenter 1.000 Carpenter	3.750 5.000 4.000 5.000 4.000	4.000 6.000 5.000 6.000 5.000	3.875 5.500 4.500 5.500 4.500	3.200 4.000 3.200 4.000 0.267
105 511-0100 105 511-0300 105 511-0400 105 511-0600 105 511-0700 105 520 105 521 105 521-0200 105 521-1800 105 521-2200	Mail Chutes, Aluminum & glass, 362 mm wide, 220 mm deep Mail Chutes, Aluminum & glass, 220 mm wide, 90mm deep Mail Chutes, Bronze or stainless, 220 mm x 90 mm deep Mail chutes, lobby collection boxes, aluminum Mail chutes, lobby collection boxes, bronze or stainless MAIL BOXES MAIL BOXES Mail box Horiz., key lock, 127 mm high x 150 mm wide x 380 deep, rear or front loading Double, 127 mm high x 305 mm wide x 380 mm deep, rear or front loading	EA.		0.000 Tools Set 1.000 Power Tool 0.125 Labor Foreman 1.000 Carpenter 1.000 Carpenter	3.750 5.000 4.000 5.000 4.000 30.000	4.000 6.000 5.000 6.000 5.000 35.000	3.875 5.500 4.500 5.500 4.500 32.500	3.200 4.000 3.200 4.000 0.267
105 511-0100 105 511-0300 105 511-0400 105 511-0600 105 511-0700 105 520 105 521 105 521-0200 05 521-0200 05 521-1800 05 521-2200	Mail Chutes, Aluminum & glass, 362 mm wide, 220 mm deep Mail Chutes, Aluminum & glass, 220 mm wide, 90mm deep Mail Chutes, Bronze or stainless, 220 mm x 90 mm deep Mail chutes, lobby collection boxes, aluminum Mail chutes, lobby collection boxes, bronze or stainless MAIL BOXES MAIL BOXES Mail box Horz., key lock, 127 mm high x 150 mm wide x 380 deep, rear or front loading Double, 127 mm high x 305 mm wide x 380 mm deep, rear or front loading Letter collection box Post office counter window, with grille PARTITIONS & STORAGE SHELVING	EA.		0.000 Tools Set 1.000 Power Tool 0.125 Labor Foreman 1.000 Carpenter 1.000 Carpenter	3.750 5.000 4.000 5.000 4.000 30.000 22.000 7.000	4.000 6.000 5.000 6.000 5.000 35.000 25.000 8.000	3.875 5.500 4.500 5.500 4.500 32.500 23.500 7.500 3.000	3.200 4.000 3.200 4.000 0.267 0.364 1.143
05 511-0100 05 511-0300 05 511-0400 05 511-0600 05 511-0700 105 520 105 521 05 520-0010 05 521-0200 05 521-0200 05 521-2200 106 050	Mail Chutes, Aluminum & glass, 362 mm wide, 220 mm deep Mail Chutes, Aluminum & glass, 220 mm wide, 90mm deep Mail Chutes, Bronze or stainless, 220 mm x 90 mm deep Mail chutes, lobby collection boxes, aluminum Mail chutes, lobby collection boxes, bronze or stainless MAIL BOXES MAIL BOXES Mail box Horiz., key lock, 127 mm high x 150 mm wide x 380 deep, rear or front loading Double, 127 mm high x 305 mm wide x 380 mm deep, rear or front loading Letter collection box Post office counter window, with grille PARTITIONS & STORAGE SHELVING WIRE MESH PARTITIONS	EA.		D 125 Labor Foreman .000 Carpenter .000 Carpenter .000 Laborer	3.750 5.000 4.000 5.000 4.000 30.000 22.000 7.000	4.000 6.000 5.000 6.000 5.000 35.000 25.000 8.000	3.875 5.500 4.500 5.500 4.500 32.500 23.500 7.500 3.000	3,200 4,000 3,200 4,000 0,267 0,364 1,143 2,667
05 511-0100 05 511-0300 05 511-0400 05 511-0600 05 511-0700 105 520 105 521 05 520-0010 05 521-0200 05 521-0200 05 521-2200 106 050	Mail Chutes, Aluminum & glass, 362 mm wide, 220 mm deep Mail Chutes, Aluminum & glass, 220 mm wide, 90mm deep Mail Chutes, Bronze or stainless, 220 mm x 90 mm deep Mail chutes, lobby collection boxes, aluminum Mail chutes, lobby collection boxes, bronze or stainless MAIL BOXES MAIL BOXES Mail box Horz., key lock, 127 mm high x 150 mm wide x 380 deep, rear or front loading Double, 127 mm high x 305 mm wide x 380 mm deep, rear or front loading Letter collection box Post office counter window, with grille PARTITIONS & STORAGE SHELVING	EA.		0 125 Labor Foreman 1.000 Carpenter 1.000 Carpenter 1.000 Laborer 1.000 Power Tool	3.750 5.000 4.000 5.000 4.000 30.000 22.000 7.000	4.000 6.000 5.000 6.000 5.000 35.000 25.000 8.000	3.875 5.500 4.500 5.500 4.500 32.500 23.500 7.500 3.000	3.200 4.000 3.200 4.000 0.267 0.364 1.143 2.667
05 511-0100 05 511-0300 05 511-0400 05 511-0600 05 511-0700 105 520 105 520 105 521-0200 105 521-1800 105 521-2200 106 050 106 050 106 052	Mail Chutes, Aluminum & glass, 362 mm wide, 220 mm deep Mail Chutes, Aluminum & glass, 220 mm wide, 90mm deep Mail Chutes, Bronze or stainless, 220 mm x 90 mm deep Mail chutes, lobby collection boxes, aluminum Mail chutes, lobby collection boxes, bronze or stainless MAIL BOXES MAIL BOXES Mail box Horiz., key lock, 127 mm high x 150 mm wide x 380 deep, rear or front loading Double, 127 mm high x 305 mm wide x 380 mm deep, rear or front loading Letter collection box Post office counter window, with grille PARTITIONS & STORAGE SHELVING WIRE MESH PARTITIONS PARTITIONS, WOVEN WIRE Partition, Woven Wire, Channel frame, 38 mm diamond mesh, 10 ga. wire, painted wall panels, 1.2 m wide, 2.1 m high	EA.	60	D 125 Labor Foreman .000 Carpenter .000 Carpenter .000 Laborer	3.750 5.000 4.000 5.000 4.000 30.000 22.000 7.000	4.000 6.000 5.000 6.000 5.000 35.000 25.000 8.000	3.875 5.500 4.500 5.500 4.500 32.500 23.500 7.500 3.000	3.200 4.000 3.200 4.000 0.267 0.364 1.143 2.667
05 511-0100 05 511-0300 05 511-0400 05 511-0700 05 520 05 521-0200 05 521-0200 05 521-1800 06 050 06 052 06 052-0600	Mail Chutes, Aluminum & glass, 362 mm wide, 220 mm deep Mail Chutes, Aluminum & glass, 220 mm wide, 90mm deep Mail Chutes, Bronze or stainless, 220 mm x 90 mm deep Mail chutes, lobby collection boxes, aluminum Mail chutes, lobby collection boxes, bronze or stainless MAIL BOXES MAIL BOXES Mail box Horiz., key lock, 127 mm high x 150 mm wide x 380 deep, rear or front loading Double, 127 mm high x 305 mm wide x 380 mm deep, rear or front loading Letter collection box Post office counter window, with grille PARTITIONS & STORAGE SHELVING WIRE MESH PARTITIONS PARTITIONS, WOVEN WIRE Partition, Woven Wire, Channel frame, 38 mm diamond mesh, 10 ga. wire, painted wall panels, 1,2 m wide, 3m high	EA	60	0.000 Tools Set 1.000 Power Tool 0.125 Labor Foreman 1.000 Carpenter 1.000 Laborer 1.000 Power Tool 0.125 Labor Foreman 0.000 Laborer 0.000 Carpenters 0.000 Carpenters	3.750 5.000 4.000 5.000 4.000 30.000 22.000 7.000 3.000	4.000 6.000 5.000 6.000 5.000 35.000 25.000 8.000 3.000	3.875 5.500 4.500 5.500 4.500 32.500 7.500 3.000	3.200 4.000 3.200 4.000 0.261 0.364 1.143 2.667
05 511-0100 05 511-0300 05 511-0400 05 511-0700 05 520 05 520 05 521-0200 05 521-0200 05 521-1800 06 052-0900 06 052-0900	Mail Chutes, Aluminum & glass, 362 mm wide, 220 mm deep Mail Chutes, Aluminum & glass, 220 mm wide, 90mm deep Mail Chutes, Bronze or stainless, 220 mm x 90 mm deep Mail chutes, lobby collection boxes, aluminum Mail chutes, lobby collection boxes, bronze or stainless MAIL BOXES MAIL BOXES Mail box Horz., key lock, 127 mm high x 150 mm wide x 380 deep, rear or front loading Double, 127 mm high x 305 mm wide x 380 mm deep, rear or front loading Letter collection box Post office counter window, with grille PARTITIONS & STORAGE SHELVING WIRE MESH PARTITIONS PARTITIONS, WOVEN WIRE Partition, Woven Wire, Channel frame, 38 mm diamond mesh, 10 ga. wire, painted wall panels, 1.2 m wide, 2.1 m high Partition, Woven Wire, Channel frame, 38 mm diamond mesh, 10 ga.	EA	60	0.000 Tools Set 1.000 Power Tool 0.125 Labor Foreman 1.000 Carpenter 1.000 Laborer 1.000 Power Tool 0.125 Labor Foreman 0.000 Laborer 0.000 Carpenters 0.000 Carpenters	3.750 5.000 4.000 5.000 4.000 30.000 22.000 7.000 3.000	4.000 6.000 5.000 6.000 5.000 35.000 8.000 35.000	3.875 5.500 4.500 5.500 4.500 32.500 7.500 3.500 7.500	3.200 4.000 3.200 4.000 0.267 0.364 1.145 2.667

CSI	N 10: SPECIALTIES	and the same			TENENCE I		EXECUTED IN
CODE	ITEM DESCRIPTION	UNIT	STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E.H.
106 101-0300	Scissors type folding security gate, painted steel, single, 1.8 m high, 1.6 m wide	OPENIN	0.125 Labor Foreman 2.000 Struc. Steel workers 1.000 Laborer 1.000 Power Tool	5.000	6.000	5.500	1.6
106 101-0400	Scissors type folding security gate, painted steel, single, 1.8 m high, 2.2 m wide			5.000	6.000	5.500	1.6
06 101-0600	Scissors type folding security gate, painted steel, double, 2.2 m high, 2.4 m wide			3.000	3.000	3.000	2.6
06 101-0700	Scissors type folding security gate, painted steel, double, 2.2 m high, 3.6 m wide			3.000	3.000	3.000	2.6
106 101-0750	Scissors type folding security gate, painted steel, double, 2.2 m high, 4.2 m wide			2.500	3.000	2.750	3.2
106 101-0900	Security Door gate, folding steel, 1.2 m wide, 1.5 m high			5.000	6.000	5.500	1.6
106 101-1300	Security Window gates, folding, steel 610 mm to 1.2 m wide, 787 mm high		1	5.000	6.000	5.500	1.6
106 150	DEMOUNTABLE PARTITIONS		-				
106 152	PARTITIONS, MOVABLE OFFICE:			-			
106 152-0900	Demountable partition, vinyl clad gypsum system on 50 mm or 64 mm steel studs. 2.75 m high, 76 mm to 95 mm thick	LM	0.125 Labor Foreman 2.000 Carpenters 1.000 Laborer 1.000 Power Tool	20.000	23.000	21.500	0.40
106 152-1000	Demountable partition,fabric clad gypsum system on 50 mm or 64 mm steel studs, 2.75 m high, 76 mm to 95 mm thick	LM	0.125 Labor Foreman 2.000 Carpenters 1.000 Laborer 1.000 Power Tool	17,000	20.000	18.500	0.47
00 132 1000	Demountable partition, steel clad gypsum system on 50 mm or 64 mm steel studs, 2.75 m high, 76 mm to 95 mm thick			15.000	17.000	16.000	0.53
06 152-1900	Demountable partition system aluminum framing vinyl clad hardboard,paper honeycomb core panel 44 mm to 64 mm thick, 2.75 m			20.000	23.000	21.500	0.40
06 152-2100	Demountable partition system aluminum framing, vinyl clad hardboard, paper honeycomb core panel, 44 mm to 64 mm thick, 2.1 m high.			23.000	26.000	24.500	0.34
06 152-2200	Demountable partition system, aluminum framing, vinyl clad hardboard, paper			30.000	35.000	32.500	0.26
	honeycomb core panel, 44 mm to 64 mm thick, 1.5 m high. Demountable partition,movable steel walls, modular system, unitized panels, 2.75 m	++-	 	00.000	00.000		
(R.S.) (ISBN R. 1552)	high, 1.2 m wide, baked enamel, prefinished Demountable partition,movable steel walls, modular system, unitized panels, 2.75 m.	++-	 	23.000	26.000	24.500	0.34
OO TOE BEOD	high, 1.2 m wide, fabric clad steel			17.000	20.000	18,500	0.47
	Demountable partition,Trackless wall, cork finish, semi-acoustic, 40 mm thick, average	SQM		24.000	28.000	26.000	0.33
	Demountable partition in plant modular office system, w/prehung steel door,76mm thick,honeycomb core panels 3.6 m x 3.6 m,double wall	EA		4.000	5.000	4.500	2.00
	PORTABLE PARTITIONS	1	1		3884945	11/08/8/09	10020
06 302	PARTITIONS, HOSPITAL				-		-
	Curtain track, box channel, ceiling mounted	LM	0.125 Labor Foreman 2.000 Carpenters 1.000 Laborer 1.000 Power Tool	50.000	58.000	54.000	0.16
06 302-0100	Curtain track, box channel, ceiling, suspended	-	1.000 FOWER TOOL	35.000	40.000	37.500	0.22
	PARTITIONS, PORTABLE		-	1		071000	0.22
00 302-2100	Partitions, portable, divider panels, free standing, fiber core, fabric face straight, 914 mm long, 1.2 m high	LM	0 125 Labor Foreman 2 000 Cerpenters 1 000 Laborer 1 000 Power Tool	35.000	40.000	37.500	0.22
	Partitions, portable, divider panels, free standing, fiber core, fabric face straight, 914 mm long, 1.8 m high			26.000	30.000	28.000	0.308
06 302-2600 F	Partitions, portable, divider panels, free standing, fiber core, fabric face	FI.		55.000	63.000	59.000	0.14
6 302-3100 F	straight, 1.8 m long, 1.5 m high Partitions, portable, divider panels, free standing, fiber core, fabric face	+	-	Nonconords.	- Verteiner		5241040
C	curved, 1.8 m long, 1.5 m high	\vdash		32.000	37.000	34.500	0.250
and the second s	Acoustical panels, 60 to 90 noise reduction coefficient, 914 mm long, 1.5 m high			32.000	37.000	34.500	0.250
	Acoustical panels, 60 to 90 noise reduction coefficient, 1.5 m long, 1.5 m high		ļ	50.000	58.000	54.000	0.160
	Acoustical panels, 60 to 90 noise reduction coefficient, 1.8 m long, 1.8 m high	1	*	45.000	52.000	48.500	0.178
Augusta de la Tra	PANEL PARTITIONS						
D6 522 F	PARTITIONS, FOLDING LEAF:		0.125 Labor Foreman				
6 520-0100 F	folding Partition, Acoustic, wood, vinyl faced, to 5.5 m high, 29 kg/m², Average.		2.000 Carpenters 1.000 Laborer 1.000 Power Tool	4.000	5.000	4.500	2.000
6 520-0600 F	olding Partition, Wood, low acoustical type, 22 kg/m², to 4.3 m high			5.000	6.000	5.500	1.600
6 520-1100 F	olding Partition, Steel, acoustical, 44 to 60 kg/m², vinyl faced, average			6.000	7.000	6.500	1.333
6 520-1700 F	olding Partition, Aluminum framed, acoustical, to 3.7 m high, 27 kg/m², Average	1	1	4.000	5.000	4.500	2.000
06 550 A	ACCORDION PARTITIONS		r		W. P. L.		
6 552 P	PARTITIONS, FOLDING ACCORDION:						
0 332-03001	artitions, tolding accordion, vinyl covered, over 12 m ² , trame not coluded, residential, 6kg/m ² , 2.4 m maximum height	sou	0.125 Labor Foreman 2.000 Carpenters 1.000 Laborer 1.000 Power Tool	32.000	37.000	34.500	0.250

CSI	N 10 : SPECIALTIES			CREW	D. O.		D. O.	AVRG.
CODE	ITEM DESCRIPTION	UN	IT	STRUCTURE	MIN.	D. O. MAX.	AVRG.	E.H.
06 552-0400	Partitions, folding accordion, whyl covered, over 12 m2, frame not included, commercial, 6.5 kg/m ² , 2.4 m maximum height				25.000	29,000	27,000	0.32
06 552-0600	Partitions tolding according vinyl covered over 12 m2 frame not included				17.000	20.000	18.500	0.47
06 552-0700	Partitions folding according whyl covered over 12 m2 frame not included industrial				8.000	9.000	8.500	1.00
06 552-0900	Partitions folding according signal covered over 12 m2 frame not included acquistical				12.000	14.000	13.000	0.66
06 552-1200	Partitions folding accordion, vinvl covered, over 12 m2, frame not included.	П			11.000	13.000	12.000	0.72
06 552-1300	Partitions folding according vinvi covered over 12 m2 frame not included acoustical				10.000	12.000	11.000	0.8
06 552-1400	Partitions folding according vinyl covered over 12 m2 frame not included acoustical.	ļ			18.000	21.000	19.500	0.4
06 750	STORAGE & SHELVING							
06 752	PARTS BINS:							
06 750-0100	Parts Bins, Metal, gray baked enamel finish, 1.9m high, 914 mm wide, 12 Bins, 457 x	EA	i i	2 Common labors	7,000	8.000	7.500	0.0
06 750-1000	Parts Bins, Metal, gray baked enamel finish, 2.2 m high, 914 mm wide, 84 Bins, 150 x	,,		27	5.000	(NARIOSW)	5.500	0.0
06 754	150 mm, 600 mm deep SHELVING	1						-
	Shelving, Metal, industrial, cross-braced, 914 mm wide, 300 mm deep	SO She		0.125 Labor Foreman 1.000 Struc. Steel Worker	12.000	14.000	13.000	0.6
06 754-0100	Shelving, Metal, industrial, cross-braced, 914 mm wide, 600 mm deep			1.000 Power Tool	20.000	23.000	21,500	0.4
SECTION OF THE PERSON	Shelving Metal, industrial, cross-braced, 1.2 m wide, 300 mm deep	9 -			13.000		14.000	0.6
	Shelving, Metal, industrial, cross-braced, 1.2 m wide, 600 mm deep				22.000	25.000	23.500	0.
	Shelving, Fully enclosed, sides and back, 914 mm wide, 300 mm deep				10.000	12.000	11.000	0.1
We control on the	Shelving, Fully enclosed, sides and back, 914 mm wide, 600 mm deep				17.000	20.000	18.500	0.
	Shelving, Fully enclosed, sides and back, 1.2 m wide, 300 mm deep				11.000	13.000	12.000	0.
Water Control	Shelving, Fully enclosed, sides and back, 1.2 m wide, 600 mm deep				18.000	21.000	19.500	0.
system Cross Manager	Shelving, wide span 700 kg capacity/shelf, 1.8 m wide, 600mm deep				25.000	29.000	27.000	0.:
	Shelving,pallet rack,steel frame 2200 kg capacity, 2.4 m long, 914 mm deep			0 125 Struc, Steel Foreman 2,000 Struc, Steel Workers 1,000 Laborers 1,000 Power tool	45.000	52.000	48.500	0.1
107	TELEPHONE SPECIALTIES			7 2 3 TV 18	Ships.	W-TA		
07 550	TELEPHONE ENCLOSURES							
07 551	TELEPHONE ENCLOSURE:				-av			
07 550-0300	Telephone enclosure, shelf type, wall hung, average	E	Ą	0 125 Labor Foreman 2 000 Carpenters 1 000 Laborer 1 000 Power Tool	4.000	5.000	4.500	2.0
07 550-0600	Telephone enclosure, booth type, painted steel, indoor average	П	_		1.250	1.000	1,125	6.4
ACTOR AND DESIGNATION	Telephone enclosure, booth type, painted steel, indoor average Telephone enclosure, outdoor, acoustical, on post				1.250	1000000	1,125 2,750	
07 550-1300					A CONTRACT	3.000	Postor Aster 4	3.3
07 550-1300 07 550-1400	Telephone enclosure, outdoor, acoustical, on post				2.500	3.000	2,750	3.2
07 550-1300 07 550-1400	Telephone enclosure, outdoor, acoustical, on post Outdoor, phone carousel, pedestal mounted with dividers	ļ			2.500	3.000	2,750	6.4 3.2 16.0
07 550-1300 07 550-1400 03 08 200	Telephone enclosure, outdoor, acoustical, on post Outdoor, phone carousel, pedestal mounted with dividers TOILET & BATH ACCESSORIES	ļ			2.500	3.000	2,750	3.3
07 550-1300 07 550-1400 03 08 200 08 204	Telephone enclosure, outdoor, acoustical, on post Outdoor, phone carousel, pedestal mounted with dividers TOILET & BATH ACCESSORIES BATH ACCESSORIES	E)	A	0.125 Labor Foreman 1.000 Carpentel 1.000 Laborer	2.500	3.000	2,750	3.3
07 550-1300 07 550-1400 03 08 200 08 204 08 204-0200	Telephone enclosure, outdoor, acoustical, on post Outdoor, phone carousel, pedestal mounted with dividers TOILET & BATH ACCESSORIES BATH ACCESSORIES BATHROOM ACCESSORIES	E	4	0.125 Labor Foreman 1,000 Carperter	2,500	3.000 1.000 20.000	2,750 0,750	3.3
07 550-1300 07 550-1400 03 08 200 08 204 08 204-0200 08 204-0500	Telephone enclosure, outdoor, acoustical, on post Outdoor, phone carousel, pedestal mounted with dividers TOILET & BATH ACCESSORIES BATH ACCESSORIES BATHROOM ACCESSORIES Curtain rod, stainless steel, 1.5 m long, 32 mm diameter	E	A .	0.125 Labor Foreman 1.000 Carpentel 1.000 Laborer	2.500 0.500	3.000 1.000 20.000	2,750 0,750	0.0
07 550-1300 07 550-1400 08 200 08 204 08 204-0200 08 204-0500 08 204-0500	Telephone enclosure, outdoor, acoustical, on post Outdoor, phone carousel, pedestal mounted with dividers TOILET & BATH ACCESSORIES BATH ACCESSORIES BATHROOM ACCESSORIES Curtain rod, stainless steel, 1.5 m long, 32 mm diameter Dispenser units, combined soap & towel dispensers,mirror & shelf,flush mounted	EA	•	0.125 Labor Foreman 1.000 Carpentel 1.000 Laborer	2.500 0.500 17.000	20.000 14.000	2,750 0,750 18,500 13,000	0 0
07 550-1300 07 550-1400 08 08 200 08 204-0200 08 204-0500 08 204-0600 08 204-0800	Telephone enclosure, outdoor, acoustical, on post Outdoor, phone carousel, pedestal mounted with dividers TOILET & BATH ACCESSORIES BATH ACCESSORIES BATHROOM ACCESSORIES Curtain rod, stainless steel, 1.5 m long, 32 mm diameter Dispenser units, combined soap & towel dispensers.mirror & shelf, flush mounted Towel dispenser and waste receptacle, 68 liter capacity	E	A .	0.125 Labor Foreman 1.000 Carpentel 1.000 Laborer	2.500 0.500 17.000 12.000	20.000 14.000 14.000 35.000	2,750 0,750 18,500 13,000 13,000	0 0 0 0
07 550-1300 07 550-1400 08 08 200 08 204-0200 08 204-0500 08 204-0600 08 204-0800 08 204-0900	Telephone enclosure, outdoor, acoustical, on post Outdoor, phone carousel, pedestal mounted with dividers TOILET & BATH ACCESSORIES BATH ACCESSORIES BATHROOM ACCESSORIES Curtain rod, stainless steel, 1.5 m long, 32 mm diameter Dispenser units, combined soap & towel dispensers, mirror & shelf, flush mounted Towel dispenser and waste receptacle, 68 liter capacity Grab bar, straight, 32 mm dia., stainless steel, 457 mm long	E	A .	0.125 Labor Foreman 1.000 Carpentel 1.000 Laborer	17.000 12.000 30.000	3.000 1.000 20.000 14.000 14.000 35.000 32.000	2,750 0,750 18,500 13,000 13,000 32,500	16.0
07 550-1300 07 550-1400 08 08 200 08 204-0200 06 204-0500 06 204-0600 06 204-0800 08 204-0900 08 204-1000	Telephone enclosure, outdoor, acoustical, on post Outdoor, phone carousel, pedestal mounted with dividers TOILET & BATH ACCESSORIES BATH ACCESSORIES BATHROOM ACCESSORIES Curtain rod, stainless steel, 1.5 m long, 32 mm diameter Dispenser units, combined soap & towel dispensers.mirror & shelf, flush mounted Towel dispenser and waste receptacle, 68 liter capacity Grab bar, straight, 32 mm dia., stainless steel, 457 mm long Grab bar, straight, 32 mm dia., stainless steel, 610 mm long	E	A .	0.125 Labor Foreman 1.000 Carpentel 1.000 Laborer	17.000 12.000 30.000 28.000	3.000 1.000 20.000 14.000 35.000 32.000 30.000	2.750 0.750 18.500 13.000 13.000 32.500 30.000	0 0 0 0 0 0
07 550-1300 07 550-1400 103 08 200 08 204-0200 08 204-0500 08 204-0600 08 204-0800 08 204-0900 08 204-1000 08 204-1000	Telephone enclosure, outdoor, acoustical, on post Outdoor, phone carousel, pedestal mounted with dividers TOILET & BATH ACCESSORIES BATH ACCESSORIES BATHROOM ACCESSORIES Curtain rod, stainless steel, 1.5 m long, 32 mm diameter Dispenser units, combined soap & towel dispensers, mirror & shelf, flush mounted Towel dispenser and waste receptacle, 68 liter capacity Grab bar, straight, 32 mm dia., stainless steel, 457 mm long Grab bar, straight, 32 mm dia., stainless steel, 610 mm long Grab bar, straight, 32 mm dia., stainless steel, 760 mm long	E	A	0.125 Labor Foreman 1.000 Carpentel 1.000 Laborer	17.000 12.000 12.000 30.000 26.000	3.000 1.000 20.000 14.000 35.000 32.000 30.000	2,750 0,750 18,500 13,000 13,000 32,500 30,000 28,000	3. 16. 0. 0. 0. 0. 0.
07 550-1300 07 550-1400 103 08 200 08 204-0200 08 204-0500 08 204-0800 08 204-0800 08 204-0900 08 204-1100 08 204-1100 08 204-1100	Telephone enclosure, outdoor, acoustical, on post Outdoor, phone carousel, pedestal mounted with dividers TOILET & BATH ACCESSORIES BATH ACCESSORIES BATHROOM ACCESSORIES Curtain rod, stainless steel, 1.5 m long, 32 mm diameter Dispenser units, combined soap & towel dispensers,mirror & shelf, flush mounted Towel dispenser and waste receptacle, 68 liter capacity Grab bar, straight, 32 mm dia., stainless steel, 457 mm long Grab bar, straight, 32 mm dia., stainless steel, 760 mm long Grab bar, straight, 32 mm dia., stainless steel, 760 mm long Grab bar, straight, 32 mm dia., stainless steel, 914 mm long	E	4	0.125 Labor Foreman 1.000 Carpentel 1.000 Laborer	17.000 12.000 12.000 30.000 28.000 24.000	20.000 14.000 14.000 35.000 32.000 30.000 28.000	2,750 0,750 18,500 13,000 13,000 32,500 30,000 28,000 26,000	0.0 0.0 0.0 0.0 0.0 0.0 0.0
07 550-1300 07 550-1400 103 108 200 108 204 108 204-0200 108 204-0500 108 204-0600 108 204-0800 108 204-0800 108 204-1000 108 204-11000 108 204-12000 108 204-12000 108 204-15000 108 204-1500	Telephone enclosure, outdoor, acoustical, on post Outdoor, phone carousel, pedestal mounted with dividers TOILET & BATH ACCESSORIES BATH ACCESSORIES BATHROOM ACCESSORIES Curtain rod, stainless steel, 1.5 m long, 32 mm diameter Dispenser units, combined soap & towel dispensers, mirror & shelf, flush mounted Towel dispenser and waste receptacle, 68 liter capacity Grab bar, straight, 32 mm dia., stainless steel, 457 mm long Grab bar, straight, 32 mm dia., stainless steel, 610 mm long Grab bar, straight, 32 mm dia., stainless steel, 914 mm long Grab bar, straight, 32 mm dia., stainless steel, 914 mm long Grab bar, straight, 32 mm dia., stainless steel, 914 mm long Grab bar, straight, 38 mm dia., stainless steel, 610 mm long	E/		0.125 Labor Foreman 1.000 Carpentel 1.000 Laborer	17.000 12.000 12.000 30.000 26.000 24.000 28.000	3.000 1.000 20.000 14.000 35.000 32.000 28.000 32.000 20.000	2,750 0,750 18,500 13,000 13,000 32,500 30,000 28,000 26,000 30,000	0 0 0 0 0 0 0 0 0
07 550-1300 07 550-1400 103 108 200 108 204 08 204-0200 08 204-0500 08 204-0600 08 204-0800 08 204-1000 08 204-1100 08 204-1200 08 204-1500 08 204-1500	Telephone enclosure, outdoor, acoustical, on post Outdoor, phone carousel, pedestal mounted with dividers TOILET & BATH ACCESSORIES BATH ACCESSORIES BATHROOM ACCESSORIES Curtain rod, stainless steel, 1.5 m long, 32 mm diameter Dispenser units, combined soap & towel dispensers,mirror & shelf,flush mounted Towel dispenser and waste receptacle, 68 liter capacity Grab bar, straight, 32 mm dia., stainless steel, 457 mm long Grab bar, straight, 32 mm dia., stainless steel, 610 mm long Grab bar, straight, 32 mm dia., stainless steel, 760 mm long Grab bar, straight, 32 mm dia., stainless steel, 914 mm long Grab bar, straight, 38 mm dia., stainless steel, 610 mm long Grab bar, straight, 38 mm dia., stainless steel, 610 mm long Tub bar, straight, 38 mm dia., stainless steel, 610 mm long	E	A	0.125 Labor Foreman 1.000 Carpentel 1.000 Laborer	17.000 12.000 12.000 30.000 26.000 24.000 17.000	3.000 1.000 20.000 14.000 35.000 32.000 32.000 28.000 32.000 20.000	2,750 0,750 18,500 13,000 13,000 32,500 30,000 26,000 30,000 18,500	0.4 0.4 0.0 0.0 0.1
07 550-1300 07 550-1400 1013 108 200 108 204 08 204-0200 08 204-0600 08 204-0600 08 204-0600 08 204-1100 08 204-1100 08 204-1500 08 204-1500 08 204-1500 08 204-1500 08 204-2350	Telephone enclosure, outdoor, acoustical, on post Outdoor, phone carousel, pedestal mounted with dividers TOILET & BATH ACCESSORIES BATH ACCESSORIES BATHROOM ACCESSORIES Curtain rod, stainless steel, 1.5 m long, 32 mm diameter Dispenser units, combined soap & towel dispensers.mirror & shelf, flush mounted Towel dispenser and waste receptacle, 68 liter capacity Grab bar, straight, 32 mm dia., stainless steel, 457 mm long Grab bar, straight, 32 mm dia., stainless steel, 610 mm long Grab bar, straight, 32 mm dia., stainless steel, 760 mm long Grab bar, straight, 32 mm dia., stainless steel, 914 mm long Grab bar, straight, 38 mm dia., stainless steel, 914 mm long Tub bar, straight, 38 mm dia., stainless steel, 610 mm x 914 mm Tub bar, stainless steel, 32 mm diameter, 610 mm x 914 mm, plus vertical arm	E	4	0.125 Labor Foreman 1.000 Carpentel 1.000 Laborer	2.500 0.500 17.000 12.000 12.000 30.000 26.000 24.000 28.000 17.000	3.000 1.000 20.000 14.000 35.000 32.000 32.000 28.000 32.000 20.000	2.750 0.750 18.500 13.000 13.000 32.500 30.000 26.000 30.000 18.500 10.000	3.16 0 0 0 0 0 0 0

CSI	N 10 : SPECIALTIES			CREW	D. O.	(0.22.6)=1	D. O.	AVRG
CODE	ITEM DESCRIPTION	U	TIN	STRUCTURE	MIN.	D. O. MAX.	AVRG.	E.H.
	Mirror with stainless steel frame, 1220 mm x 610 mm	-	-	-	10,000	1000000	11.000	8.0
1000000	Mirror with stainless steel frame, 1830 mm x 610 mm	_	-		6.000		6.500	1.3
All the second	Mirror with 127 mm stainless steel shelf, 20 mm sq. frame, 457 x 610 mm		1	1	20.000	23.000	21.500	0.4
	Mirror with 127 mm stainless steel shelf, 20 mm sq. frame, 1220 x 610 mm		1		10.000	12.000	11.000	0.8
and the second second	Mirror with 127 mm stainless steel shelf, 20 mm sq. frame, 1830 x 610 mm		L		6.000	7.000	6.500	1.3
PAR - 2 2 2 2 3 3 5 5	Mop holder strip, stainless steel, 5 holders, 1220 mm long				24.000	28.000	26.000	0.3
	Napkin/tampon dispenser, recessed				17.000	20.000	18.500	0.4
108 204-4300	Robe hook, single, heavy duty, concealed mounting				40.000	46.000	43.000	0.2
108 204-4600	Soap dispenser, chrome, surface mounted, liquid or powder				24.000	28.000	26.000	0.3
108 204-5000	Soap dispenser,Recessed,stainless steel, liquid or powder				12.000	14.000	13.000	0.6
08 204-5300	Soap dispenser tank, stainless steel, 3.8 liter				12.000	14.000	13.000	0.6
08 204-5400	Soap dispenser tank, stainless steel, 20 liter				6.000	7.000	6.500	1.3
08 204-5440	Soap dish chrome, surface mounted				36.000	41.000	38.500	0.2
08 204-5480	Soap dish chrome,recessed				17.000	20.000	18.500	0.47
08 204-5520	Soap dish, with grab bar surface mounted				20.000	23.000	21.500	0.40
08 204-5560	Soap dish, with grab bar recessed	\top			10.000	12.000	11.000	0.80
08 204-5600	Shelf, stainless steel, 127 mm wide, 18 ga., 610 mm long	Τ.			30.000	35.000	32.500	0.26
08 204-5700	Shelf, stainless steel, 127 mm wide, 18 ga., 1219 mm long	E	A	0.125 Labor Foreman 1:000 Carpenter 1:000 Laborer 1:000 Power Tool	20.000	23.000	21.500	0.40
08 204-5800	Shelf, stainless steel, 200 mm wide, 18 ga., 610 mm long				27,000	31.000	29.000	0.29
08 204-5900	Shelf, stainless steel, 200 mm wide, 18 ga., 1220 mm long				20.000	23.000	21.500	0.40
08 204-6000	Toilet seat cover dispenser, stainless steel, recessed				24.000	28.000	26.000	0.33
08 204-6050	Toilet seat cover dispenser, stainless steel, surface mounted				12.000	14.000	13.000	0.66
08 204-6100	Toilet tissue dispenser, surface mounted, stainless steel, single roll	1			30.000	35.000	32.500	0.26
08 204-6200	Toilet tissue dispenser, surface mounted, stainless steel, double roll				24.000	28.000	26.000	0.33
08 204-6400	Towel bar, stainless steel, 457 mm long				25.000	29.000	27.000	0.32
08 204-6500	Towel bar, stainless steel, 760 mm long				22.000	25.000	23.500	0.36
08 204-6700	Towel dispenser, stainless steel, surface mounted				20.000	23.000	21.500	0.40
08 204-6800	Towel dispenser, stainless steel, flush mounted, recessed				12.000	14.000	13.000	0.66
08 204-7000	Towel holder, hotel type, 2 guest size				22.000	25.000	23.500	0.36
08 204-7200	Towel shelf, stainless steel, 610 mm long, 200 mm wide				22.000	25.000	23.500	0.36
08 204-7400	Tumbler holder				32.000	37.000	34.500	0.25
08 204-7500	Soap, tumbler & toothbrush				32.000	37.000	34.500	0.25
08 204-7700	Wall urn ash receiver, surface mount, 280 mm long				15.000	17.000	16.000	0.53
08 204-8000	Waste receptacles, stainless steel, with top, 50 liter				12.000	14.000	13.000	0.66
08 204-8100	Waste receptacles, stainless steel, with top, 136 liter				10.000	12.000	11.000	0.800
08 208	MEDICINE CABINETS:							-
08 208-0010	Medicine Cabinets, With mirror, stainless steel frame, 400 mm x 560 mm, unlighted	EA	0.0	0.125 Labor Foreman 1.000 Carpenter 1.000 Laborer 1.000 Power Tool	15.000	17.000	16.000	0.533
8 208-0300	Medicine Cabinets, Sliding mirror doors, 500mm x 400 mm x 120 mm, unlighted	П			8.000	9.000	8.500	1,000
8 208-0400	Medicine Cabinets, Sliding mirror doors, 600 mm x 480 mm x 210 mm, lighted				6.000	7.000	6.500	1.333
8 208-1200	Medicine Cabinets, Hotel cabinets, stainless, with lower shelf, unlighted				11.000	13.000	12.000	0.727
8 208-1300	Medicine Cabinets, Hotel cabinets, stainless, with lower shelf, lighted				6.000	7.000	6.500	1.333
08 800	SCALES			1		1000000		
08 801	SCALES Built-in floor scale, not incl. foundations	T	1					
8 801 -010 0 S	Scales, dial type, 4.5 metric ton capacity, 2.4 m x 1.8 m platform	EA		0.125 Labor Foreman 3.000 Carpenters 0.500 Electrician 2.000 Laborer 1.000 Power & Tools Set	0.600	1.000	0.800	13.333
8 801-0300 8	Scales, dial type, 4.5 metric ton capacity, 2.7 m x 2.1 m platform	1	1		0.500	1.000	0.750	16.000
	Scales, dial type, 9 metric ton capacity, steel platform, 2.7 m x 2.1 m platform	++	+		0.400	0.500	0.450	20.000
	Control to the state of the sta	1	- 1		1 0,400	0.000	3.430	20.000
	ruck scales, included steel weigh bridge, dial type, mech., 7 m x 3 m platform, 18		\neg		0.350	1.000	0.675	22.857

CSI CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E.H.
108 801-1400	Truck scales, included steel weigh bridge, dial type, mech., 21 m x 3 m platform, 54 metric ton capacity			0.125	0.500	0.313	64.000
108 801-1640	Truck digital electronic scale, 90 metric ton capacity, 18 m x 3 m platform			0.150	0.500	0.325	53.333
108 801-2300	Concrete foundation pits for scale platform, 2.4 m x 1.8 m, 3.82 m ³ required.		0.125 Labor Foreman 3.000 Carpenters 1.000 Steel fluer 2.000 Laborers 0.125 Equipment Operator 1.000 Power Tools 1.000 Excavator	0.650	1.000	0.825	24.615
108 801-2600	Concrete foundation pits for scale platform, 15 m x 3 m, 22.92 m ³ required.			0.220	0.500	0.360	72.727
108 801-2700	Concrete foundation pits for scale platform, 21 m x 3 m, 30.56 m ³ required.		V-	0.160	0.400	0.280	100.000
108 801-2900	Low profile electronic warehouse scale, not incl. printer, 1.2 m x 1.2 m platform, 4536 kg capacity		0.125 Labor Foreman 2.000 Carpenters 1.000 Laborer 1.000 Power Tool	0.300	0.500	0.400	26.667
108 801-3400	Low profile electronic warehouse scale, not incl. printer, 1.5 m x 2.1 m platform, 10 metric ton capacity	Į.		0.250	0.500	0.375	32.000
109	WARDROBE & CLOSET SPECIALTIES						
109 010	COAT RACKS / WARDROBES						
109 011	COAT RACKS & WARDROBES	13					
109 011-1400	Utility hook strips, 10 mm x 64 mm x 860 mm long, 12 hooks	EA	0 125 Labor Foreman 1:000 Carperter 1:000 Laborer 1:000 Power Tool	55.000	63.000	59.000	0.145
109 011-1850	Wall mounted racks, 16 gauge steel frame, 22 gauge shelves, 300 mm x 380 mm x 0.66 m, 6 hangers			36.000	41.000	38.500	0.222
109 011-2000	Wall mounted racks, 16 gauge steel frame, 22 gauge shelves, 300 mm x 380 mm x 1.3 m, 12 hangers			36.000	41.000	38.500	11.520

The same

Division 11 Equipment

Division 11.. Equipment..

Estimating Tips:

General

Many of these items are purchased by the owner for installation by the contractor.

Check the specifications for responsibilities, and include time for receiving, installation, mechanical and electrical hook-ups in the appropriate division. Many items in Division 11 require some type of support system that is not usually furnished with the item.

Example of these systems include blocking for the attachment casework and support angles for ceiling hung projection screens.

Some items may require assembly. Verify the amount of assembly required to the need for a hard electrical connection and add the appropriate costs.

CSI	ITEM DESCRIPTION	UNIT	Т	CREW STRUCTURE	D. O. MIN.	D. O. MAX	D. O. AVRG.	AVRG.
110	EQUIPMENT					WIAA	Avnd.	
110 050	CONTRACTOR EQUIPMENT						THE PERSON NAMED IN	
110 051	CONTRACTOR EQUIPMENT See division 016							
110 100	MAINTENANCE EQUIPMENT							
110 121	VACUUM CLEANING:							
110 121-0010	Vacuum Cleaning, Central, 3 inlet system, residential	SYSTE	M	0.125 Skilled Foreman 1.000 Skilled Workers 1.000 Common Laborer 1.000 Power Tool	1.350	2.000		5.92
110 121-0800	Vacuum Cleaning, Central, 9 inlet system, residential	100	T	**	0.550	1.000		14.54
110 200	SECURITY / VAULT EQUIP.	<i>J:</i>	-					
110 261	SAFE:							
110 261-0100	Safe for offices 4 hours rating 1.5 m x 0.8 m x 0.5 m including handling into building	EA	3	0 125 Labor Foreman 3.000 Common Laborers 6.000 Truck Driver 1.000 Pickup	1.500	2.000	1.750	5.33
110 261-0300	Safe for offices 1 hours rating 1.5 m x 0.8 m x 0.5 m double door,	T	Ť	and the same	1.500	2.000	1.750	5.33
110 261-0550	including handling into building Sate,office data,4 hours rating 1.8 m x 0.9 m x 1.4 m including handling	++	+		-	01/01/20	146-00	1,750,775,00
	into building Safe,money,1 hour fire rated 0.23 m x 0.36 m x 0.36 m including handling	\vdash	+		0.900	1.000	0.950	8.88
110 261-0800	into building	1	1		6.000	7.000	6.500	1.33
Will be a second	Safe,jewlerer,1.6 m x 0.6 m x 0.45 m including handling into building	_		47 -	1.500	2.000	1.750	5.33
110 300	TELLER & SERVICE EQUIPMENT							
110 301	BANK EQUIPMENT:		-					10
110 301-0100	Alarm system for police with vault alarm	EA	2	.125 Skilled Foreman .000 Skilled Workers .000 Common Laborer .000 Power Tool	0.400	1.000	0.700	20.000
110 301-0500	Bullet resistant teller window, 1.2 m x 1.5 m	**	1	.125 Skilled Forman .000 Skilled Worker .000 Common Labor .000 Power Tool	1.000	1.000	1.000	8.000
110 301-3100	Bank counter, complete with steel undercounter	STATION	N 2	.125 Skilled Foreman .000 Skilled Workers .000 Common Laborer .000 Power Tool	0.500	1.000	0.750	16.000
110 301-4600	Bank door and frame, bullet-resistant, with vision panel, average	EA	T		1.000	1.000	1.000	8,000
110 301-4800	Bank drive-up window, complete w/motorized drawer, mike & bullet resistant glass 600 mm wide, 800 mm high for 1 teller.		T		0.750	1.000	0.875	10.667
110 301-5000	Bank night depository door, with whole chest average	-	t		0.650	1.000	0.825	12.308
11000000000000000000000000000000000000	Bank night depository door, envelop only.		t		5.000	6.000	5.500	1.600
	Bank partitions, bullet-resistant, 30 mm glass, 2.4 m high	LM	t		1.500	2:000	1.750	5.333
- AND	Bank pneumatic tube systems, 2 lane drive-up, complete system	TOTAL			0.300	0.500	0.400	26.667
	Bank pneumatic tube systems, 2 lane drive-up, with T.V. viewer		1		0.250	0.500	0.375	32.000
10 301-5580	Bank safety deposit boxes, 18 modular openings, each 250 mm x 380 mm including base and top canopy units, average.	OPENING	3 1.	125 Skilled Foreman 000 Skilled Workers 000 Common Laborer 000 Power Tool	5.000	6.000	5.500	1.600
10 301-5590	Bank teller locker, average	W.			10.000	12.000	11.000	0.800
10 301-5600	Bank pass thru, bullet-resist, window, painted steel, 610 mm x 910 mm	EA	1.	125 Skilled Foreman 000 Skilled Workers 000 Common Laborer 000 Power Tool	1.750	2.000	1.875	4.571
10 301-5700	Bank pass thru, bullet-resist. window, painted steel, 1200 mm x1200 mm	1	1	See Long 1001	1.250	1.000	1.125	6.400
	Bank pass thru, bullet-resist, window, painted steel, 1800 mm x 1000 mm		1		1.000	1.000	1.000	8.000
	Bank surveillance system including 3 cameras 16 mm film ,complete		1		1.250	1.000	1.125	6.400
oras Salas ar secondo	Bank surveillance system, 16 mm film camera,add for any added camera		1	and the state of	5.000	6.000	5.500	1.600
	Bank surveillance system, video camera, complete		1		1.000	1.000	1.000	8.000
	Bank twenty four (24) hour teller, single unit, automated, deposit, cash and memo.		1		0.250	0.500	0.375	32.000
10 301-7000	Bank Vault door and frame, 1980 mm x 810 mm x 250 mm thick single,	+	+				0.40.000	Ullia SAAC
	10 bolt, 4 hours rating. Bank Vault door and frame, 1980 mm x 810 mm x 250 mm thick single,	-	-		3.000	3.000	3.000	2.667
	10 bolt, 6 hours rating.				3.000	3.000	3.000	2.667
	Bank Vault door and frame, 1980 mm x 810 mm x 250 mm thick single, 18 bolt, 4 hours rating.			.	1.500	2.000	1,750	5.333
			-	- Inches				

CSI	N 11: EQUIPMENT	101010000000	CREW	D. O.	D. O.	D. O.	AVRG.
CODE	ITEM DESCRIPTION	UNIT	STRUCTURE	MIN.	MAX	AVRG.	E. H.
110 401-0050	Book shelve unit, hardwood, 1.0 m high, 1 m long, 300 mm wide, including handling, shelves at 300 mm O.C.	EA	0.125 Skilled Foreman 1.000 Skilled Workers 1.000 Common Laborer 1.000 Power Tool	20.000	23.000	21.500	0.400
110 401-0100	Chandelier, crystal, 3 meter diameter, with winch.	EA	0.125 Skilled Foreman 2.000 Skilled Workers 4.000 Common Laborer 1.000 Tools Set 1.000 Chain Hoist 1.000 Special Scafolding	1.000	1.000	1.000	24.000
110 401-0200	Mihrab, arched, 2.5 m high, 1.5 m wide, oak veneer casement including furring.	ĸ	D.125 Skilled Foreman 2 000 Skilled Workers 1 000 Common Laborer 1,000 Power Tool	0.500	1.000	0.750	16,000
110 401-0500	Minbar, wood, prefabricated, w/6 riser stair and built-in microphone			1.000	1.000	1.000	0.000
110 401-0600	Minbar, wood, deluxe, prefabricated, w/10 riser, solid cherry, and built-in microphone.			1.000	1.000	1.000	0.000
110 401-0700	Minbar, railing, hardwood, average	LM	0.125 Skilled Foreman 1.000 Skilled Workers 1.000 Common Laborer 1.000 Power Tool	12.000	14.000	13.000	0.667
110 401-1000	Minaret crescent bronze upto 2 m high	EA	0.125 Skilled Foreman 1.000 Skilled Workers 2.000 Common Laborer 1.000 Power Tool	2.000	2.000	2.000	4 000
110 401-1100	Minaret crescent bronze more than 2 m high		*	1.000	1.000	1.000	8.000
110 401-2000	Sound system equipment,rack with amplifier tape recorder and 4 minaret loud speakers		0.125 Skilled Foreman 1.000 Skilled Workers 1.000 Common Laborer 1.000 Power Tool	1.500	2.000	1.750	5,330
110 401-3000	Shoe rack,capacity 100 shoes,including handling		0.125 Labor Foreman 1.000 Painter 4.000 Common Laborers 1.000 Consumable Tools	6.000	7.000	6.500	1.333
110 401-4000	Stained glass moderate art work	SQM	0.125 Skilled Foreman 1.000 Skilled Workers 1.000 Common Laborer 1.000 Power Tool	4.000	5.000	4.500	2.000
110 401-4100	Small pieces colored glass, patterned	*		6.000	7.000	6.500	1.333
110 500	LIBRARY EQUIPMENT						
110 501	LIBRARY EQUIPMENT:						- THE STATE
110 501-0010	Library equipment, Book shelf, metal, 2.3 m high, 250 mm shelf, double face	LM	0.125 Skilled Foreman 1.000 Skilled Workers 1.000 Common Laborer 1.000 Power Tool	5.000	6.000	5.500	1.600
110 501-0300	Library equipment, Bookshelf, metal, 2.3 m high, 250 mm shelf, single face			5.000	6.000	5.500	1.600
110 501-0700	Library equipment, Book shelf, metal, 2.3 m high, 300 mm shelf, double face			5.000	6.000	5.500	1,600
110 501-1100	Magazine shelving, 2.2 m high, 300 mm deep			5.000	6.000	5.500	1.600
110 501-2500	Carrels, hardwood, 910 mm x 610 mm, average	EA		10.000	12.000	11.000	0.80
110 501-3500	Charging desk, built-in, with counter, plastic laminated top	LM		4.000	5.000	4.500	2,00
110 501-3800	Steel mobile compacting shelving, 2.7 meter high, 900 m wide, hand crank.	EA		1.500	2.000	1.750	5.33
110 501-3820	Steel mobile compacting shelving, 2.7 m high, 900 mm wide, motor operated.		1	1.000	1.000	1.000	8.00
110 600	THEATRE / STAGE EQUIPMENT						
110 601	STAGE EQUIPMENT:						
110 601-0100	Control boards with 20 dimmers & breakers, average	EA	0.125 Skilled Foreman 1.000 Skilled Workers 1.000 Common Laborer 1.000 Power Tool	0.600	1.000	0.800	13.333
110 601-0500	Curtain track, straight, light duty, less than 8 meters.	LM		7.000	8.000	7.500	1.143
	Curtain track, straight, light duty, more than 12 meters			8.000	9.000	8.500	1.000
110 601-0520	Curtain Edok, Straight, light duty, Thore than 12 meters			7.000	8.000	7.500	1.143
	Curtain track, straight, medium duty, more than 12 meters.				100000000000000000000000000000000000000		1.600
110 601-0540		+		5.000	6.000	5.500	1.000
110 601-0540 110 601-0600	Curtain track, straight, medium duty, more than 12 meters.			5.000 3.500	6.000 4.000	5.500 3.750	
110 601-0540 110 601-0600 110 601-0700	Curtain track, straight, medium duty, more than 12 meters. Curtain track, straight, heavy duty, more than 12 meters. Curtain track, curved section. Curtain track, add for curtain drawing, motor operation upto 3/4 HP,	EA		-			2.286
110 601-0540 110 601-0600 110 601-0700 110 601-0800	Curtain track, straight, medium duty, more than 12 meters. Curtain track, straight, heavy duty, more than 12 meters. Curtain track, curved section. Curtain track, add for curtain drawing, motor operation upto 3/4 HP, no wiring included per track. Curtain track, add for curtain lifting equipment, motor operation upto 3/4 HP,	EA .		3.500	4.000	3.750	2.28 1.60
110 601-0540 110 601-0600 110 601-0700 110 601-0800 110 601-0820	Curtain track, straight, medium duty, more than 12 meters. Curtain track, straight, heavy duty, more than 12 meters. Curtain track, curved section. Curtain track, add for curtain drawing, motor operation upto 3/4 HP, no wiring included per track. Curtain track, add for curtain lifting equipment, motor operation upto 3/4 HP, no wiring included per track.			3.500 5.000 5.000	4.000 6.000 6.000	3.750 5.500 5.500	2.286 1.600 1.600
110 601-0540 110 601-0600 110 601-0700 110 601-0800 110 601-0820 110 601-1000	Curtain track, straight, medium duty, more than 12 meters. Curtain track, straight, heavy duty, more than 12 meters. Curtain track, curved section. Curtain track, add for curtain drawing, motor operation upto 3/4 HP, no wiring included per track. Curtain track, add for curtain lifting equipment, motor operation upto 3/4 HP, no wiring included per track. Curtains, velour, medium weight			3.500 5.000 5.000 40.000	4.000 6.000 6.000 46.000	3.750 5.500 5.500 43.000	2.286 1.600 1.600 0.200
110 601-0540 110 601-0600 110 601-0700 110 601-0800 110 601-0820 110 601-1150	Curtain track, straight, medium duty, more than 12 meters. Curtain track, straight, heavy duty, more than 12 meters. Curtain track, curved section. Curtain track, add for curtain drawing, motor operation upto 3/4 HP, no wiring included per track. Curtain track, add for curtain lifting equipment, motor operation upto 3/4 HP, no wiring included per track. Curtains, velour, medium weight Curtains, silica based yarn, fireproof	SQM		3.500 5.000 5.000 40.000 4.500	4.000 6.000 6.000 46.000 5.000	3.750 5.500 5.500 43.000 4.750	2.286 1.600 1.600 0.200
110 601-0540 110 601-0600 110 601-0700 110 601-0800 110 601-0820 110 601-11000 110 601-1150	Curtain track, straight, medium duty, more than 12 meters. Curtain track, straight, heavy duty, more than 12 meters. Curtain track, curved section. Curtain track, add for curtain drawing, motor operation upto 3/4 HP, no wiring included per track. Curtain track, add for curtain lifting equipment, motor operation upto 3/4 HP, no wiring included per track. Curtains, velour, medium weight			3.500 5.000 5.000 40.000	4.000 6.000 6.000 46.000	3.750 5.500 5.500 43.000	2.28 1.60 1.60 0.20

CSI	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX	D. O. AVRG.	AVRG. E. H.
	Stage Light Ellipsoidal quartz, 1,000 W, 300 mm lens			6.000	7,000	6.500	1.333
	Stage Light Strobe, quartz up to 15 flashes.			4.000	5.000	4.500	2.000
1000000	Stage Telescoping platforms, extruded alum., straight, average	SQM St	0.125 Skilled Foreman 2.000 Skilled Workers 1.000 Common Laborer 1.000 Power Tool	8.000	9.000	8.500	1.000
10 601-8000	Rule fo thumb; total stage equipment, average	SQM St	0.125 Skilled Foreman 2.000 Skilled Workers 1.000 Common Laboret 1.000 Power Tool	5.000	6.000	5.500	1.60
10 604	MOVIE EQUIPMENT:						
10 604-2600	Movie projector, 35 mm with pedestal average	EA	0.125 Skilled Foreman 1.000 Skilled Workers 1.000 Common Laborer 1.000 Power Tool	6.000	7.000	6.500	1.33
10 604-3000	Projection screens, rigid, in wall, acrylic, 6 mm thick	SQM	0.125 Skilled Foreman 2.000 Skilled Workers 1.000 Common Laborer 1.000 Power Tool	24.000	28.000	26.000	0.33
10 604-3100	Projection screens, rigid, in wall, acrylic, 13 mm thick	SQM		17.000	20.000	18.500	0.47
	Projection screens, electric operated, heavy duty, 37 SQM	EA		1.000	1.000	1.000	8.00
The second second	Theatre projection screens, matte white, including frames	SQM		26.000	30.000	28.000	0.30
10 604-3700	Sound systems rack unit, incl. amplifier, single system, average	EA	0.125 Skilled Foreman 1.000 Skilled Workers 1.000 Common Laborer 1.000 Power Tool	1.500	2.000	1.750	5.33
10 604-3800	Sound systems, rack unit, including amplifier,dolby/super sound,average			0.750	1.000	0.875	10.66
	Sound Speakers, recessed behind screen, average		+	2.500	3.000	2.750	3.20
110 604-5700	Theatre Seating, painted steel, upholstered		0.125 Skilled Foreman 2.000 Skilled Workers 1.000 Common Laborer 1.000 Power Tool	32.000	37.000	34.500	0.2
110 604-5800	Theatre Seating, deluxe, provided sound outlets.	1		8.000	9.000	8.500	1.00
111 020	BARBER SHOP EQUIPMENT						
111 021	BARBER EQUIPMENT:						
111 021-0050	Chair, hydraulic, movable, average	EA	0.125 Skilled Foreman 1,000 Skilled Workers 1,000 Common Laborer 1,000 Power Tool	30.000	35.000	32.500	0.26
111 021-0200	Wall hung styling station with mirrors, average			5.000	6.000	5.500	1.60
111 021-0500	Barber Sink, hair washing basin, rough plumbing not incl.			5.000	6.000	5.500	1.6
111 021-1100	Total equipment, rule of thumb, per chair, average	1	1	2.000	2.000	2.000	4.0
SO IT THE PUBLISHED IN THE	CASH REGISTER / CHECKING				2		
111 041	CHECKOUT COUNTER:						
111 041-0010	Checkout Counter, Supermarket conveyor, single belt	EA	0.125 Skilled Foreman 1.000 Skilled Workers 2.000 Common Laborer 1.000 Power Tool	10.000	12.000	11.000	0.8
111 041-0100	Checkout Counter, Supermarket conveyor, double belt, power take-away		- F.	9.000	10.000	9.500	0.8
111 041-040	Checkout Counter, Supermarket conveyor, double belt, power take-away, incl. side			8.000	9.000	8.500	1.0
Alma Seller	Scanning Warehouse or bulk type conveyor belt	++		7.000	8.000	7.500	1.1
	Scanning system 2 lanes with 10 registers computerized,including scales			0.500	1.000	0.750	16.0
	Register, cashier, average	11		15.000	17.000	16.000	0.5
CONTRACTOR IN	DISPLAY CASES		1	10.075			
111 050 111 051	REFRIGERATED FOOD CASES:	-	ban Jak -				
	0 Freezer, self contained, chest type, 0.84 m3	EA	0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common Laborer 1.000 Power Tools	3.000	3.000	3.000	2.6
111 051-050	0 Freezer,self contained,upright,glass door, 2.18 m3		10%	2.500	3.000	2.750	3.2
	0 Frozen food,chest type 3.6 m long			2.500	3.000	2.750	3.2
			2 1 4	2.500	3.000	2.750	3.2
111 051-080	O Frozen food, island case, 3.6 m long, single deck.	- 1		and the second			
	0 Frozen food,island case, 3.6 m long, single deck. 0 Frozen food,island case, 3.6 m long, double deck.	+		2.250	3.000	2.625	3.5

1119255	N 11: EQUIPMENT	The sales					
CODE	ITEM DESCRIPTION	UNIT	STRUCTURE	D. O. MIN.	D. O. MAX	D. O. AVRG.	AVRG. E. H.
111 101-2000	Dry cleaners, electric, 9 kg capacity	EA	0.125 Skilled Foreman 2.000 Skilled Workers 1.000 Common Laborer 1.000 Power Tool	0.300	0.500	0.400	26.66
111 101-2050	Dry cleaners, electric, 12 kg capacity			0.250	0.500	0.375	32.00
11 101-2100	Dry cleaners, electric, 14 kg capacity			0.220	0.500	0.360	36.36
11 101-2150	Dry cleaners, electric, 27 kg capacity			0.150	0.500	0.325	53.33
111 101-3600	Folders, blankets & sheets	1		0.400	1.000	0.700	20.00
111 101-3700	Folders, king size, with automatic stacker,			0.250	0.500	0.375	32.00
111 101-4500	troners, institutional, 2.8 m, single roll		\	0.400	1.000	0.700	20.00
111 101-5000	Washers, residential, 4 cycle, average	EA	0.125 Skilled Foreman 1.000 Skilled Workers 1.000 Common Laborer 1.000 Power Tool	8.000	9.000	8.500	1.00
111 101-6000	Combination washer/extractor, 9 kg capacity			1.500	2.000	1.750	5.33
111 101-6100	Combination washer/extractor, 14 kg capacity		10	0.750	1.000	0.875	10.66
111 101-6200	Combination washer/extractor, 23 kg capacity			0.650	1.000	0.825	12.30
111 101-6300	Combination washer/extractor, 34 kg capacity			0.300	0.500	0.400	26.66
111 101-6350	Combination washer/extractor, 57 kg capacity			0.150	0.500	0.325	53.33
111 101-7000	Central Laundry conveyor rack rail for moving bags complete w/ scale & motor	LM	1.000 Skilled Foreman 3.000 Skilled Workers 2.000 Common Laborers 1.000 Power Tools 1.000 Tools Set	3.000	3.000	3.000	5.33
111 320	PROJECTION SCREENS						
111 321	PROJECTION SCREENS:						
111 321-0100	Projection screens, wall or ceiling hung, glass beaded, manually operated, average	SQM	0.125 Skilled Foreman 2.000 Skilled Workers 1.000 Common Laboret 1.000 Power Tool	32.000	37.000	34.500	0.25
111 321-0600	Projection screens, electric operated, glass beaded, 2.5 SQM	EA		5.000	6.000	5.500	1.60
111 321-0900	Projection screens, electric operated, glass beaded, 4.5 SQM			3.000	3,000	3.000	2.66
111 321-1200	Projection screens, heavy duty, electric operated, 18 SQM			1.500	2.000	1.750	5.33
111 321-1300	Projection screens, heavy duty, electric operated, 37 SQM	.		1.000	1.000	1.000	8.00
111 321-1500	Projection screens, rigid acrylic in wall, for rear projection, 6 mm thick	SQM		24.000	28.000	26.000	0.33
111 321-1600	Projection screens, rigid acrylic in wall, for rear projection, 13 mm thick (maximum size 3m x 6m)	Sac.		17.000	20.000	18.500	0.47
111 400	SERVICE STATION EQUIPMENT						
111 401	AUTOMOTIVE:		000	¥0 -			
111 401-0010	Air compressors, electric, 2 HP, standard controls or dual controls	EA	0.125 Skilled Foreman 2.000 Skilled Workers 1.000 Common Laborer 1.000 Power Tool	3.250	4.000	3.625	2.46
	Air compressors, electric, 5 HP, 110/220 V, standard controls or dual controls			3.000	3.000	3.000	2.66
111 401-0600						4.500	2.00
AND MANUFACTURE	Air hose assembly, 15 meter, heavy duty, complete with filter and quick disconnect.			4.000	5.000	3.000	
111 401-0600				4.000 12.000	14.000	13.000	0.66
111 401-0600 111 401-0700	Air hose assembly, 15 meter, heavy duty, complete with filter and quick disconnect.			-			0.000
111 401-0600 111 401-0700	Air hose assembly, 15 meter, heavy duty, complete with filter and quick disconnect. Air operated pump for hose reels, w/200 liter drum. Diesel /Gasoline dispenser, 170 Liter per minute, complete with connections.			12.000	14.000	13.000	0.66 1.77 22.85
111 401-0600 111 401-0700 111 401-1100 111 401-2200	Air hose assembly, 15 meter, heavy duty, complete with filter and quick disconnect. Air operated pump for hose reels, w/200 liter drum. Diesel /Gasoline dispenser, 170 Liter per minute, complete with connections. Diesel/Gasoline dispenser, 55 liter per minute, complete with connections, single hose,			12.000 4.500	14.000 5.000	13,000 4.750	1.77
111 401-0600 111 401-0700 111 401-1100 111 401-2200 111 401-2400	Air hose assembly, 15 meter, heavy duty, complete with filter and quick disconnect. Air operated pump for hose reels, w/200 liter drum. Diesel /Gasoline dispenser, 170 Liter per minute, complete with connections. Diesel/Gasoline dispenser, 55 liter per minute, complete with connections, single hose, not including piping of pit box.			12.000 4.500 0.350	14.000 5.000 0.500	13,000 4,750 0,425	1.77 22.85
111 401-0600 111 401-0700 111 401-1100 111 401-2200 111 401-2400 111 401-2500	Air hose assembly, 15 meter, heavy duty, complete with filter and quick disconnect. Air operated pump for hose reels, w/200 liter drum. Diesel /Gasoline dispenser, 170 Liter per minute, complete with connections. Diesel/Gasoline dispenser, 55 liter per minute, complete with connections, single hose, not including piping of pit box. Hoists, single post, fully dydraulic,3600 kg, capacity, swivel arms.			12.000 4.500 0.350 0.200	14.000 5.000 0.500 0.500	13.000 4.750 0.425 0.350	1.77 22.85 40.00 80.00
11 401-0600 11 401-0700 11 401-1100 11 401-2200 11 401-2400 11 401-2500	Air hose assembly, 15 meter, heavy duty, complete with filter and quick disconnect. Air operated pump for hose reels, w/200 liter drum. Diesel/Gasoline dispenser, 170 Liter per minute, complete with connections. Diesel/Gasoline dispenser, 55 liter per minute, complete with connections, single hose, not including piping of pit box. Hoists, single post, fully dydraulic, 3600 kg, capacity, swivel arms. Hoists, two posts, fully hydraulic, adjustable frames, 5000 kg capacity.			12.000 4.500 0.350 0.200 0.100	14.000 5.000 0.500 0.500 0.500	13.000 4.750 0.425 0.350 0.300	1.77 22.85 40.00
111 401-0600 111 401-0700 111 401-1100 111 401-2200 111 401-2500 111 401-2800 111 401-2820	Air hose assembly, 15 meter, heavy duty, complete with filter and quick disconnect. Air operated pump for hose reels, w/200 liter drum. Diesel /Gasoline dispenser, 170 Liter per minute, complete with connections. Diesel/Gasoline dispenser, 55 liter per minute, complete with connections, single hose, not including piping of pit box. Hoists, single post, fully dydraulic, 3600 kg, capacity, swivel arms. Hoists, two posts, fully hydraulic, adjustable frames, 5000 kg capacity. Hoists two posts, fully hydraulic, adjustable frames, 11000 kg capacity, frame supports.	SET		12.000 4.500 0.350 0.200 0.100 0.200	14.000 5.000 0.500 0.500 0.500 0.500	13.000 4.750 0.425 0.350 0.300 0.350	1.77 22.85 40.00 80.00 40.00
111 401-0600 111 401-0700 111 401-1100 111 401-2200 111 401-2500 111 401-2800 111 401-2820 111 401-3000	Air hose assembly, 15 meter, heavy duty, complete with filter and quick disconnect. Air operated pump for hose reels, w/200 liter drum. Diesel /Gasoline dispenser, 170 Liter per minute, complete with connections. Diesel/Gasoline dispenser, 55 liter per minute, complete with connections, single hose, not including piping of pit box. Hoists, single post, fully dydraulic, 3600 kg, capacity, swivel arms. Hoists, two posts, fully hydraulic, adjustable frames, 5000 kg capacity. Hoists two posts, fully hydraulic, adjustable frames, 11000 kg capacity, frame supports. Hoists, two posts, pneumatic, 5000 kg capacity	SET EA		12.000 4.500 0.350 0.200 0.100 0.200 0.100	14.000 5.000 0.500 0.500 0.500 0.500 0.400	13.000 4.750 0.425 0.350 0.300 0.350 0.250	1.77 22.85 40.00 80.00 40.00 20.00
111 401-0600 111 401-0700 111 401-1100 111 401-2200 111 401-2400 111 401-2800 111 401-2820 111 401-3000 111 401-3200	Air hose assembly, 15 meter, heavy duty, complete with filter and quick disconnect. Air operated pump for hose reels, w/200 liter drum. Diesel/Gasoline dispenser, 170 Liter per minute, complete with connections. Diesel/Gasoline dispenser, 55 liter per minute, complete with connections, single hose, not including piping of pit box. Hoists, single post, fully dydraulic, 3600 kg, capacity, swivel arms. Hoists, two posts, fully hydraulic, adjustable frames, 5000 kg capacity. Hoists two posts, fully hydraulic, adjustable frames, 11000 kg capacity, frame supports. Hoists, two posts, pneumatic, 5000 kg capacity.			12.000 4.500 0.350 0.200 0.100 0.200 0.100 0.400	14.000 5.000 0.500 0.500 0.500 0.500 0.400 1.000	13.000 4.750 0.425 0.350 0.300 0.350 0.250 0.700	1.77 22.85 40.00 80.00 40.00
111 401-0600 111 401-0700 111 401-1100 111 401-2200 111 401-2400 111 401-2800 111 401-2820 111 401-3200 111 401-3200 111 401-4200	Air hose assembly, 15 meter, heavy duty, complete with filter and quick disconnect. Air operated pump for hose reels, w/200 liter drum. Diesel /Gasoline dispenser, 170 Liter per minute, complete with connections. Diesel/Gasoline dispenser, 55 liter per minute, complete with connections, single hose, not including piping of pit box. Hoists, single post, fully dydraulic, 3600 kg, capacity, swivel arms. Hoists, two posts, fully hydraulic, adjustable frames, 5000 kg capacity. Hoists two posts, fully hydraulic, adjustable frames, 11000 kg capacity, frame supports. Hoists, two posts, pneumatic, 5000 kg capacity. Hoists, two posts, pneumatic, 11000 kg capacity. Oil pump air operated, 54 Kg drum			12.000 4.500 0.350 0.200 0.100 0.200 0.100 0.400 12.000	14.000 5.000 0.500 0.500 0.500 0.500 0.400 1.000	13,000 4,750 0,425 0,350 0,300 0,350 0,250 0,700 13,000	1.777 22.85 40.00 80.00 40.00 20.00 0.66
111 401-0600 111 401-0700 111 401-1100 111 401-2200 111 401-2200 111 401-2500 111 401-2820 111 401-3000 111 401-3200 111 401-4200 111 401-4200	Air hose assembly, 15 meter, heavy duty, complete with filter and quick disconnect. Air operated pump for hose reels, w/200 liter drum. Diesel /Gasoline dispenser, 170 Liter per minute, complete with connections. Diesel/Gasoline dispenser, 55 liter per minute, complete with connections, single hose, not including piping of pit box. Hoists, single post, fully dydraulic, 3600 kg, capacity, swivel arms. Hoists, two posts, fully hydraulic, adjustable frames, 5000 kg capacity. Hoists two posts, fully hydraulic, adjustable frames, 11000 kg capacity, frame supports. Hoists, two posts, pneumatic, 5000 kg capacity. Hoists, two posts, pneumatic, 11000 kg capacity. Oil pump air operated, 54 Kg drum Paint spray booth, 3.0 m x 2.95 m x 3.25 m high, 220 V/3 phase/ 60 Hz.			12.000 4.500 0.350 0.200 0.100 0.200 0.100 0.400 12.000 0.400	14.000 5.000 0.500 0.500 0.500 0.400 1.000 14.000	13.000 4.750 0.425 0.350 0.300 0.350 0.250 0.700 13.000 0.700	1.77 22.85 40.00 80.00 40.00 20.00 0.66 20.00

CSI	ITEM DESCRIPTION	UNIT	Т	CREW STRUCTURE	D. O. MIN.	D. O. MAX	D. O. AVRG.	AVRG. E. H.
111 501	PARKING EQUIPMENT:							
111 501-0010	Parking equipment, traffic detectors, magnetic	EA		0.125 Skilled Foreman 2.000 Skilled Workers 1.000 Common Laborer 1.000 Power Tool	4.000	5.000	4.500	2.000
111 501-0500	Parking equipment,automatic gate 2.4 m long arm one way				1,750	2.000	1.875	4.57
111 501-0650	Parking equipment,automatic gate 2.4 m long arm two way				1.750	2.000	1.875	4.57
111 501-1050	Parking equipment, booth for attendant, average				2.000	2.000	2.000	4.000
111 501-1400	Parking equipment, fee indicator, 25 mm display				6.000	7.000	6.500	1.333
111 501-3500	Parking equipment, ticket printer and dispenser				2.000	2.000	2.000	4.000
111 501-4000	Parking equipment, card control station				6.000	7.000	6.500	1.333
111 600	LOADING DOCK EQUIPMENT							
111 601	LOADING DOCK:			10				
111 601-0010	Loading dock, bumpers rubber blocks 114 mm thick, 250 mm high, 350 mm long	EA		0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Power Tool	15,000	17.000	16.000	0.533
111 601-0300	Loading dock, bumpers rubber blocks 114 mm thick, 250 mm high, 910 mm long				10.000	12.000	11.000	0.800
111 601-0500	Loading dock, bumpers rubber blocks 114 mm thick, 300 mm high, 350 mm long				14.000	16.000	15.000	0.571
111 601-0550	Loading dock, bumpers rubber blocks 114 mm thick, 300 mm high, 610 mm long		2		11.000	13.000	12.000	0.72
111 601-0600	Loading dock, bumpers rubber blocks 114 mm thick, 300 mm high, 910 mm long				9.000	10.000	9.500	0.889
111 601-0800	Loading dock, bumpers rubber blocks 150 mm thick, 250 mm high, 356 mm long				12.750	15.000	13.875	0.627
111 601-0850	Loading dock, bumpers rubber blocks 150 mm thick, 250 mm high, 610 mm long				10.500	12.000	11.250	0.762
111 601-0900	Loading dock, bumpers rubber blocks 150 mm thick, 250 mm high, 910 mm long				8.000	9.000	8.500	1.000
111 601-0910	Loading dock, bumpers rubber blocks 150 mm thick, 500 mm high, 280 mm long				7.500	9.000	8.250	1.067
111 601-0920	Loading dock, extruded rubber bumpers, T section, 560 mm x 560 mm x 76 mm				22.000	25.000	23.500	0.364
111 601-0940	Loading dock, molded rubber bumpers, T section, 610 mm x 300 mm x 76 mm				11.000	13.000	12.000	0.72
111 601-2200	Dock lifter, 2200 Kg capacity, 1.5 m x 1.5 m aluminium platform			0.125 Skilled Foreman 2.000 Skilled Workers 1.000 Common Laborer 1.000 Power Tool	2.000	2.000	2.000	4.000
111 601-2700	Dock lifter, 4000 Kg capacity, 1.5 m x 1.5 m aluminium platform				2.000	2.000	2.000	4.000
111 601-3200	Dock lifter, 6000 Kg capacity, 1.5 m x 1.5 m aluminium platform				2.000	2.000	2.000	4.000
111 601-4400	Dock lifter, 2200 kg capacity, fixed with 1.8 m x 2.4 m platform			0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common Laborer 1.000 Gas Welding M/C	0.6	1.000	1.000	13.330
111 601-4500	Loading dock,levelers,hinged for trucks 10 ton capacity, 1.8 m x 2.4 m				1.000	1.000	1.000	8.000
	Loading dock,levelers,hydraulic for trucks 10 ton capacity, 2.1 m x 2.4 m				1.000	1.000	1.000	8.000
111 601-5000	Loading docks light single or double arm upto 1.5 m long			0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common Laborer 1.000 Power Tool	3.000	3.000	3.000	2.667
111 700	WASTE HANDLING EQUIPMENT		6					
111 700-0010	Waste handling, compactors, 120V, 110 kg/hr, chute fed	EA		0.125 Skilled Foreman 2.000 Skilled workers 1.000 Common Laborer 1.000 Power Tool	0.850	1.000	0.925	9.412
111 700-0100	Waste handling, compactors, 120V, 110 kg/hr, hand fed				2.000	2.000	2.000	4.000
111 700-1000	Heavy duty industrial compactor,upto 2 CUM capacity				0.400	1.000	0.700	20.000
111 700-1150	Heavy duty industrial compactor, upto 4 CUM capacity				0.400	1.000	0.700	20.000
111 700-1200	Combination shredder / compactor 2200 kg/hr.				0.400	1.000	0.700	20.000
11 700-3750	Incinerator, electric, 45 kg/hour, average			1.000 Skilled Foreman 2.000 Skilled Workers 0.250 Equipment Operator 3.000 Common Laborers 0.250 Crane 11 Ton 1.000 Tool Set	0.600	1.000	0.800	16.667
111 700-4000	Incinerator, electric, 180 kg/hour , average			4 1	0.550	1.000	0.775	18.182
Amanagement	Incinerator, electric, 450 kg/hour, average				0.230	0.500	0.365	43.478
	Incinerator, Gas, chimney not included, 23 kg/hour, average	$\top \top$			0.600	1.000	0.800	16.667
-	Incinerator, Gas, chimney not included, 180 kg/hour, average				0.230	0.500	0.365	43.478
111 700-4600	Incinerator, Gas, chimney not included, 180 kg/hour, with heat recovery system,				0.100	0.500	0.300	100.000
111 900	DETENTION EQUIPMENT	+			1	-		

CSI	11: EQUIPMENT ITEM DESCRIPTION	UNIT		CREW STRUCTURE	D. O. MIN.	D. O. MAX	D. O. AVRG.	AVRG. E. H.
CODE	PETERSON FOLUDIENT		_			3		
901-0500	DETENTION EQUIPMENT Bar front, rolling, 22 mm bars, 100 mm O.C., 2.1 m high, 1.5 m wide, with hardware	EA	3	.125 skilled Foreman .000 Skilled Workers .000 Common Laborer .000 Gas Welding M/C .000 Power Tools	1.750	2.000	1.875	9.143
001.1000	Detention, doors and frames, 915 x 2.1 m, complete, w/hardware				3.500	4.000	3.750	4.571
901-2000	Detention, cells, pretab., 1.5 to 2 m wide, 2 to 2.5 m high, 2 to 2.5 m deep bar front,				1.250	1.000	1.125	12.800
	Detention, visitor cubicle, vision panel, no intercom	1	1		1.000	1.000	1.000	16.000
Water and the second	FOOD SERVICE, RESIDENTIAL, DARKROOM, ATHLETIC	EQUIP	M	ENT				
4	FOOD SERVICE EQUIPMENT							
4 000	APPLIANCES	11.11						
4 002	APPLIANCES			0.125 Skilled Foreman 1.000 Skilled Worker	9.000	10.000	9.500	0.889
4 002-0050	Cooking range, 760 mm free standing, 1 oven, average	EA		1,000 Common Worker 1,000 Tools Set		10.000	9.500	0.889
4 002-015	O Cooking range, 760 mm free standing, 2 oven, average			n and District Common	9.000	10.000	3.500	5000
	0 Cooking range, built-in, 760 mm wide, 1 oven, average			0.125 Skilled Foreman 2.000 Skilled Workers 1.000 Common Laborer 1.000 Tools Set	3.000	3.000	3.000	2.667
14 002-070	Cooking range, free standing, 530 mm wide range, 1 oven, average	EA		0.125 Skilled Foreman 1.000 Skilled worker 1.000 Common Laborer 1.000 Tools Set	9,000	10.000	9.500	0.889
	00 Counter top cook tops, 4 burner, standard, average				7.000	8.000	7,500	1.143
	50 Microwave oven, average				7.000	8.000	7.500	1.143
	Combination range, retrigerator and sink 1.5 m wide, average			0.125 Skilled Foreman 2.000 Skilled Workers 1.000 Common Laborer 1.000 Tools Set	2.000	2.000	2,000	4.00
	and the second second sink 1.8 m wide average				1.250	1.000	1.125	6.40
14 002-159	90 Combination range, refrigerator and sink 1.8 m wide, average	\neg			2.000	2,000	2.000	4.00
	00 Combination range, retrigerator and sink, 1.2 m wide, office, average				2.500	3.000	2.750	3.20
2011/10/2017	20 Combination refrigerator and sink only, office model				4.500	5.000	4.750	1.77
1.0010.000	50 Compactor, residential, average Deep freeze, 0.4 to 0.6 CUM, average			0.125 Skilled Foreman 1.000 Skilled worker 1.000 Common Laborer 1.000 Tools Set	9.000	10.00	9.500	0.88
	Desertions On CINA suprana				7.000	8.00	7.500	
A CONTRACTOR OF THE PARTY OF TH	Deep freeze, 0.84 CUM, average				5.000	6.00	5.500	
DAMONDA MATERIAL	750 Dishwasher, built-in, average				7,000	8.00	0 7.500	-
	200 Dryer, automatic, average				4.00	5.00	0 4.50	-
	Garbage disposer, sink type, average Heater, electric, built-in, 1250 W, ceiling type, average				6.00	7.00	0 6.50	700
	700 Heater, electric, built-in, 1250 W, wall type, average				6.00	0 7.00	6.50	+
	950 Heater, electric, built-in, 3000 W, wall type with blower, average			•	6.00	0 7.00	6.50	0 1.3
Commission Sec	150 Hood for range, 2 speed, vented, 1m wide, average			0.125 Skilled Foreman 2.000 Skilled Workers 1.000 Common Laborer 1.000 Tools Set	6.00	7.00	00 6.50	0 1.3
114 002-5	5200 loemaker, automatic, 9 kg/day			0.125 Skilled Foreman 1.000 Skilled worker 1.000 Common Laborer 1.000 Tools Set.	9.00	10.00		
114 000 5	5350 kemaker, automatic, 23 kg/day				3.00	-	-	
	5500 Refrigerator, no frost, 0.28 CUM to 0.34 CUM, average				9.00			
	5950 Retrigerator, no frost, 0.50 CUM to 0.56 CUM, average		1		8.00		-	
	6150 Refrigerator, no frost, 0.59 CUM to 0.8 CUM, average	la la			7.00	2/10	-	
	6400 Sump pump cellar drainer, 250 W, average		I		1.0	91		
	6650 Washing machine, automatic, average		I		8.0	-	W 1015	
101-12016	6900 Water heater, electric, 100 liter, average	4			5.0	190	-	
	7100 Water heater, electric, 300 liter, average	Ţ,			2.0	-	5.N/S	THE REST
	7350 Water softener, automatic, to 8 grains/L		I		4.0	-	00 4.5	20
114 002-	7400 Water softener, automatic, to 26 grains/L		T		3.0	00 3.0	000 3.0	00 2.

CSI CODE	ITEM DESCRIPTION	UNIT	10.00116.00	REW JCTURE	D. O. MIN.	D. O. MAX	D. O. AVRG.	AVRG. E. H.
114 004	KITCHEN EQUIPMENT:	v-						
114 004-0010	Bake oven gas, one section	EA	0.125 Skilled F 1.000 Skilled w 1.000 Common 1.000 Tools Se	orker Laborer	7.000	8.000	7.500	1.14
114 004-0300	Bake oven gas, two section				6.000	7.000	6.500	1.33
114 004-0600	Bake oven gas, three section				5.000	6.000	5.500	1.600
114 004-1300	Broiler without oven, standard.				5.000	6.000	5.500	1.60
114 004-1550	Broiler without oven, infra-red.		0.125 Skilled For 2.000 Skilled w 1.000 Common 1.000 Power To	orker Laborer	3.000	3.000	3.000	2.66
114 004-1580	Bain Marie gas or steam, 1.8 meter			39//	6.000	7.000	6.500	1.33
114 004-1850	Coffee ums, twin, 22 Liter		0.125 Skilled For 1.000 Skilled with 1.000 Common 1.000 Tools Sei	orker Laborer	16.000	18.000	17.000	0.500
114 004-1860	Coffee urns, twin, 76 Liter				7.000	8.000	7.500	1.143
114 004-2350	Cooler,beverage,1.8 m long				5.000	6.000	5.500	1.600
114 004-2700	Dishwasher, commercial, rack type, 10 to 12 rack/hr.				2.000	2.000	2.000	4.000
114 004-2750	Dishwasher, semi-automatic 38 to 50 racks/hour			1	1.000	1.000	1.000	8.000
114 004-2800	Dishwasher, automatic 190 to 230 racks/hour	EA	0.125 Skilled Fo 2.000 Skilled wo 1.000 Common 1.000 Tools Set	orker Laborer	0.600	1.000	0.800	13.333
114 004-2840	Dishwasher,automatic 8,750 to 12,500 dishes/hour			7	0.150	0.500	0.325	53.333
114 004-3800	Food mixers, 18 liter				6.000	7.000	6.500	1.333
114 004-4000	Food mixers, 56 liter				4.000	5.000	4.500	2.000
114 004-4300	Freezeers, reach-in 1.90 CUM		0.125 Skilled Fo 1.000 Skilled W 1.000 Common 1.000 Tools Set	orkers Laborer	2.500	3.000	2.750	3.200
114 004-4750	Fryer, with twin baskets, modular model				6.000	7.000	6.500	1.333
114 004-5000	Fryer, floor model, on 152 mm legs				4.000	5.000	4.500	2.900
114 004-5550	Griddle, 1.2 m long				5.000	6.000	5.500	1.600
114 004-5800	ice cube maker, 25 kg/day				3.000	3.000	3.000	2.667
114 004-6050	ice cube maker, 230 kg/day				1.000	1.000	1.000	8.000
114 004-6350	Kettles, steam jacketed, 75 liter		0.125 Skilled Fo 2.000 Skilled Wi 1.000 Common 1.000 Power To	orkers Laborer	5.000	6.000	5.500	1.600
114 004-6600	Kettles, steam jacketed, 230 liter				4.000	- 5.000	4.500	2.000
114 004-6700	Peelers, vegetables, large, capacity 23 kg				5.000	6.000	5.500	1.600
14 004-6760	Pot washer, small				4.000	5.000	4.500	2.000
14 004-6770	Pot washer, large			10	3.000	3.000	3.000	2.667
114 004-6900	Range, restaurant type, 6 burners and 1 standard oven, 910 mm W		0.125 Skilled Fo 1.000 Skilled We 1.000 Common 1 1.000 Tools Set	orkers	6.000	7.000	6.500	1.333
114 004-7450	Range, restaurant type,heavy duty, single 860 mm convention oven.			127	4.000	5.000	4.500	2.000
14 004-7950	Range, restaurant type, hood fire protection system, average	1			2.000	2.000	2.000	4.000
14 004-8000	Shield stainless steel wall mounted	SQM			6.500	7.000	6.750	1.231
14 004-8800	Service counter, stainless steel, straight section, 600 mm wide	LM			21.000	24.000	22.500	0.381
14 004-8820	Service counter, stainless steel, curved section, 600 mm wide				16.000	18.000	17.000	0.500
14 004-8830	Soft drinks dispenser, 4 spout, 1 remote	EA			0.450	1.000	0.725	17.778
14 004-8850	Steamer, electric 27 kW		0.125 Skilled For 2.000 Skilled Wo 1.000 Common V 1.000 Power Too	orkers Workers	6.000	7.000	6.500	1.333
14 580	DISAPPEARING STAIRS	State of	1 1 1 1 1	Ī				
14 581	DISAPPEARING STAIRWAY:							
14 581-0100	Disappearing stairway without trim, custom grade,pine,ceiling height 2.8 m	EA	0.125 Skilled For 2.000 Skilled Wo 1.000 Common V 1.000 Power Too	rkers Vorkers	6.000	7.000	6.500	1.333
14 581-0600	Disappearing stairway without trim, heavy duty, pine to 4 m ceiling high				4.000	5.000	4.500	2.000
14 581-0700	Disappearing stairway, spiral for mosque Minaret	LM			7.000	8.000	7.500	1.143

CSI	11: EQUIPM	ENT ITEM DESCRIPTION	UN	т	53	CREW STRUCTURE	D. O. MIN.	D. O. MAX	D. O. AVRG	AVR	
ODE			E	4		1	1.250	1.000	1.1	25	6.400
581-1000	Disappearing stairway	fire escape, galvanized steel, 3.2 m to 4.0 m ceiling									
4 740	DARKROOM PRO	CESSING									
4 741	DARKROOM EQU	IPMENT:				Skilled Foreman			QC:	. 0.5	6.400
	Darkroom equipment,	developing sink, 1.2 m x 1.3 m, 130 mm deep	E	A 1	.000	Skilled Workers Common Laborer Tools Set	1.250	1,000		100	6.667
							1,200	1.000	- 11	100	UE-12-11-1
		developing sink, 250 mm deep, 610 mm x 2.75 m numidified filtered air 1.2 m x 635 mm x 1.7 m high		1	2.000	Skilled Foreman Skilled Workers Common Laborer Tools Set	4,000	5.000		500	2.000
				\Box			1.000	1.00	j 1.	.000	8.000
4 741-2000	Darkroom Processor	s, automatic, color print, average		+			4.000	5,00	0 4	.500	2.000
4 741-3000	Darkroom Viewing lig	hts, 500 mm x 610 mm with color correction		+	0.125	Skilled Foreman	All seconds	00.22		005	9.412
		round, maximum sheet 500 mm x 610 mm			1.000	Skilled Workers Common Laborer Tools Set	0.850	1.00		0.925	11.429
	- Washer	course maximum sheet 1.2 m x 1.4 m						2.80	100	0.005	9,412
14 741-380	Darkroom Washers.	square, maximum sheet 1.2 m x 1.4 m	age				0.850	1.00	NJ C	0.925	0.772
14 741-450	O Darkroom Combinat	tion tank sink, tray sink, washers, with dry side tables, aver		-		- A					
14 760	REVOLVING DA	RKROOM DOORS									
14 768	DARKROOM DO	OORS:			0.15	5 Skilled Foreman		100		4.500	2.000
3.00.000	20 Darkroom Revolvin	g door, standard, 2 way, 1 m diameter	C	PENIN	1.0	25 Skilled Foreman 20 Skilled Workers 30 Common Laborer 30 Tools Set	4.000	5.0	00	4.500	2.000
		safety door, 3 way, 1.2 m diameter	C	PENIN	G 2.0	25 Skilled Foreman 00 Skilled Workers 00 Common Laborer 00 Tools Set	3.00	3.0	000	3.000	2.667
									_	-	
114 800	ATHLETIC / RE							-			
114 801	HEALTH CLUE	B EQUIPMENT:			0	125 Skilled Foreman 300 Skilled Workers	0.65	0 1	000	0.825	12.308
114 801-0	600 Circuit training app	paratus, 12 machines, average		SET	1.	000 Common Laborer 000 Tools Set	4.0		.000	4.500	2.000
114 801-0	800 Squat racks			EA	1		317250				
114 805		IPMENT:			lo.	125 Skilled Foreman		+			1000000
414 540 104 000		tops, wall mounted, 1.8 m extended, fixed, average		EA	1	.000 Skilled Workers .000 Common Laborer .000 Tools Set	1.0	00 1	.000	1.000	8.000
114 805-3	3000 Bleachers, telesco	oping, manual to 15 tier, average		SE	Т	,000 Skilled Foreman ,000 Skilled Workers ,000 Common Laborer ,000 Tools Set	75.0	900 86	5.000	80.500	0.21
		4.8 m x 480 mm, suspended		E	A	0.125 Skilled Foreman 1.000 Skilled Workers 1.000 Common Laborer 1.000 Tools Set	2.	000	2,000	2.000	4.00
1	1						6.	000	7.000	6.500	1.33
114 805	4210 Exercise equipm	nent, High bar, floor plate attached		+			4	500	5.000	4.750	1,77
114 805	4240 Exercise equipm	nent, Parallel bars, adjustable, uneven					4	500	5.000	4,750	1.7
114 805	-4300 Exercise equipr	nent, Rope, ceiling mounted, 5.4 m long		1		- 4	6	.000	7.000	6.500	1.3
114 805	-4360 Exercise equipr	nent, Treadmill, motorized, training type, deluxe		-	-		0	.700	1.000	0.850	11.4
114 805	-4390 Exercise equip	nent. Weight litting multi-station, average quality		+	+	1,000 Skilled Foreman					
	5-7300 Scoreboards, f					2.000 Skilled Workers 0.250 Equipment Operat 3.000 Common Laborers 0.250 Crane 11 Ton 1.000 Tools Set	or (,400	1.000	0.700	25 (
				+	+	-		1.000	1.000	1.000	10.0
114 80	5-7500 Scoreboards, I	pasketball, average			i	A CAPPING					
1115	INDUSTR	IAL & PROCESS EQUIPMENT									
115 0		L EQUIPMENT									
	Company to the service of	T INSTALLATION:			_	1.000 Struc Steel Fore	man		-		
115 0	05-0010 Industrial equ			м	ET.TC	4,000 Struc Steel Wor 4,000 Egp. Oper. (cran 1,000 Egp. Oper. Offer	kers e)	1.500	2.000	1.75	5

CSI CODE	ITEM DESCRIPTION	UNI	т	CREW STRUCTURE	D. O. MIN.	D. O. MAX	D. O. AVRG.	AVRG. E. H.
115 011	VOCATIONAL SHOP EQUIPMENT:							
115 011-040	0 Combination belt & disc sander, 150 mm	EA	1.0	25 Skilled Foreman 00 Skilled Workers 00 Common Laborer 00 Power Tool	5,000	6.000	5.500	1.60
115 011-0700	0 Drill press, floor mounted, 300 mm, 0.5 HP	П			5.000	6.000	5.500	1.60
115 011-0800	Dust collector, not incl. ductwork, 150 mm diameter [6"]				2.000	2.000	2.000	4.00
115 011-1000	Grinders, double wheel, 1 HP				6.000	7.000	6.500	1.33
115 011-1300	Jointer, 100 mm, 1 HP				6.000	7.000	6.500	1.33
115 011-2500	D Potter's wheel, motorized				5.000	6.000	5.500	1.60
115 011-2800	Saws, band, 350 mm, 3/4 HP				5.000	6.000	5,500	1.60
115 011-4300	Welder AC arc, 30 A capacity			1	5.000	6.000	5.500	1.60
116	LABORATORY, PLANETARIUM, OBSERVATORY EQUIPME	NT			The second second			
116 000	LABORATORY EQUIPMENT							
116 001	LABORATORY EQUIPMENT:		V. 1					
116 001-0010	Laboratory, cabinets, base, door units, metal	LM	1.00	5 Skilled Foreman 0 Skilled Workers 0 Common Laborer 0 Power Tool	7.000	8.000	7.500	1.14
116 001-0011	Laboratory cabinet, drawer units		T		7.000	8.000	7.500	1.143
16 001-1550	Laboratory, counter tops, not incl. base cabinets, acidproof, average	SQM			8.000	9.000	8.500	1.000
16 001-1650	Laboratory, counter tops, not incl. base cabinets, stainless steel, average				9.000	10.000	9.500	0.889
16 001-2020	Laboratory Fume hood, with countertop & base, not including HVAC, simple	LM			2.500	3.000	2.750	3.200
16 001-2100	Laboratory Fume hood, with countertop & base, not including HVAC, special, maximum	**			1.500	2.000	1.750	5.333
16 001-2800	Laboratory sink, one piece, flask wash, free standing	EA			3.000	3.000	3.000	2.667
16 001-3000	Laboratory Utility table, acid resistant top with drawers	LM	1.00	Skilled Foreman Skilled Workers Common Laborer Power Tool	10.000	12.000	11.000	0.800
17	MEDICAL EQUIPMENT							
17 100	HOSPITAL EQUIPMENT							
17 104	CLEAN ROOM EQUIPMENT:							
17 104-0100	Scrub station, stainless steel base, 1 bay 1.5 m	EA	1.000	Skilled Foreman Skilled Workers Common Laborer Power Tool	2.500	3.000	2.750	3.200
17 104-0400	Stainless steel warm cabinet, solution 600 mm x 760 mm x 1.8 m				7.000	VENESS.		
		UB.			7.000	8.000	7.500	1.143
17 104-0500	Clean room sterilizer, 400 x 400 x 660 mm				4.000	5.000	7.500 4.500	1.143
	Clean room sterilizer, 400 x 400 x 660 mm Stainless steel, suture/drug cabinet; 1220 mm x 460 mm x 1524 mm				_	_		
17 104-0600		•		-	4.000	5.000	4.500	2.000
17 104-0600 17 110	Stainless steel, suture/drug cabinet; 1220 mm x 460 mm x 1524 mm	•			4.000	5.000	4.500	2.000
17 104-0600 17 110 17 110	Stainless steel, suture/drug cabinet; 1220 mm x 460 mm x 1524 mm DENTAL EQUIPMENT	EA	1.000	Skilled Foreman Skilled Worker Common Laborer Power Tool	4.000	5.000	4.500	2.000
17 104-0600 17 110 17 110 17 111-0100	Stainless steel, suture/drug cabinet; 1220 mm x 460 mm x 1524 mm DENTAL EQUIPMENT DENTAL EQUIPMENT:	EA	1.000	Skilled Worker Common Laborer	4.000 8.000	5.000 9.000	4.500 8.500	2.000
17 104-0600 17 110 17 110 17 111-0100 17 111-0300	Stainless steel, suture/drug cabinet; 1220 mm x 460 mm x 1524 mm DENTAL EQUIPMENT: Dental Central suction system, average	EA	1.000	Skilled Worker Common Laborer	4.000 8.000 2.000	5.000 9.000 2.000	4.500 8.500 2.000	2.000 1.000 4.000
17 104-0600 17 110 17 110 17 111-0100 17 111-0300 17 111-0600	Stainless steel, suture/drug cabinet; 1220 mm x 460 mm x 1524 mm DENTAL EQUIPMENT: Dental Central suction system, average Dental compressor, average	EA	1.000	Skilled Worker Common Laborer	4.000 8.000 2.000	5.000 9.000 2.000	4.500 8.500 2.000	2.000 1.000 4.000 8.000
17 104-0600 17 110 17 110 17 111-0100 17 111-0300 17 111-0600 17 111-1000	Stainless steel, suture/drug cabinet; 1220 mm x 460 mm x 1524 mm DENTAL EQUIPMENT DENTAL EQUIPMENT: Dental Central suction system, average Dental compressor, average Dental chair, electric or hydraulic, average	EA	1.000	Skilled Worker Common Laborer	2.000 1.000 0.500	5.000 9.000 2.000 1.000	2.000 1.000 0.750	2.000 1.000 4.000 8.000
17 104-0600 17 110 17 110 17 111-0100 17 111-0300 7 111-0600 7 111-1000 7 111-2000	Stainless steel, suture/drug cabinet; 1220 mm x 460 mm x 1524 mm DENTAL EQUIPMENT: Dental Central suction system, average Dental compressor, average Dental chair, electric or hydraulic, average Drill console with accessories, average	EA	1.000	Skilled Worker Common Laborer	2.000 1.000 0.500 2.500	5.000 9.000 2.000 1.000 1.000 3.000	4.500 8.500 2.000 1.000 0.750 2.750	2.000 1.000 4.000 8.000 16.000 3.200
17 104-0600 17 110 17 110 17 111-0100 17 111-0600 7 111-0600 7 111-2000 7 111-2200	Stainless steel, suture/drug cabinet; 1220 mm x 460 mm x 1524 mm DENTAL EQUIPMENT: Dental Central suction system, average Dental compressor, average Dental chair, electric or hydraulic, average Drill console with accessories, average Light, celling mounted, average	EA	1.000	Skilled Worker Common Laborer	2.000 1.000 0.500 2.500 3.000	5.000 9.000 2.000 1.000 1.000 3.000 3.000	2.000 1.000 0.750 2.750 3.000	2.000 1.000 4.000 8.000 16.000 3.200 2.667
17 104-0600 17 110 17 110 17 111-0100 17 111-0300 17 111-0600 17 111-1000 17 111-2000 17 111-2000 17 111-3000	Stainless steel, suture/drug cabinet; 1220 mm x 460 mm x 1524 mm DENTAL EQUIPMENT: Dental Central suction system, average Dental compressor, average Dental chair, electric or hydraulic, average Drill console with accessories, average Light, ceiling mounted, average Dental Sterilizer	EA	1.000	Skilled Worker Common Laborer	2.000 1.000 0.500 2.500 3.000 4.000	5.000 9.000 2.000 1.000 1.000 3.000 3.000 5.000	4.500 8.500 2.000 1.000 0.750 2.750 3.000 4.500	2.000 1.000 4.000 8.000 16.000 3.200 2.667 2.000
17 104-0600 17 110 17 110 17 111-0100 17 111-0300 17 111-1000 17 111-2000 17 111-2000 17 111-3105 17 111-3500	Stainless steel, suture/drug cabinet; 1220 mm x 460 mm x 1524 mm DENTAL EQUIPMENT: Dental Central suction system, average Dental compressor, average Dental chair, electric or hydraulic, average Drill console with accessories, average Light, ceiling mounted, average Dental Sterilizer X-ray unit, wall, average	EA	1.000	Skilled Worker Common Laborer	2.000 1.000 0.500 2.500 3.000 4.000 5.000	5.000 9.000 2.000 1.000 1.000 3.000 5.000 6.000	4.500 8.500 2.000 1.000 0.750 2.750 3.000 4.500 5.500	2.000 1.000 4.000 6.000 16.000 3.200 2.667 2.000 1.600
17 104-0600 17 110 17 110 17 111-0100 17 111-0300 17 111-1000 17 111-2000 17 111-2000 17 111-3105 17 111-3500	Stainless steel, suture/drug cabinet; 1220 mm x 460 mm x 1524 mm DENTAL EQUIPMENT: Dental Central suction system, average Dental compressor, average Dental chair, electric or hydraulic, average Drill console with accessories, average Light, ceiling mounted, average Dental Sterilizer X-ray unit, wall, average X-ray panoramic unit, deluxe	EA	1.000	Skilled Worker Common Laborer	4.000 8.000 2.000 1.000 0.500 2.500 3.000 4.000 5.000	5.000 9.000 2.000 1.000 1.000 3.000 5.000 6.000 1.000	4.500 8.500 2.000 1.000 0.750 2.750 3.000 4.500 5.500	2.000 1.000 4.000 8.000 16.000 3.200 2.667 2.000 1.600 6.400
17 104-0600 17 110 17 110 17 111-0100 17 111-0300 17 111-0600 17 111-1000 17 111-2000 17 111-2000 17 111-3105 17 111-3500 17 111-3500 17 120	Stainless steel, suture/drug cabinet; 1220 mm x 460 mm x 1524 mm DENTAL EQUIPMENT: Dental Central suction system, average Dental compressor, average Dental chair, electric or hydraulic, average Drill console with accessories, average Light, ceiling mounted, average Dental Sterilizer X-ray unit, wall, average X-ray panoramic unit, deluxe Developers, x-ray, average	EA	1.000 1.000 1.000 1.000	Skilled Worker Common Laborer	4.000 8.000 2.000 1.000 0.500 2.500 3.000 4.000 5.000	5.000 9.000 2.000 1.000 1.000 3.000 5.000 6.000 1.000	4.500 8.500 2.000 1.000 0.750 2.750 3.000 4.500 5.500	2.000 1.000 4.000 8.000 16.000 3.200 2.667 2.000 1.600 6.400
7 104-0600 17 110 17 110 17 110 7 111-0100 7 111-0300 7 111-0600 7 111-1000 7 111-2000 7 111-3000 7 111-3000 7 111-3000 7 111-3000 7 111-3000 7 111-3000 7 111-3000 7 111-3000 7 111-3000 7 111-3000 7 111-3000 7 111-3000	Stainless steel, suture/drug cabinet; 1220 mm x 460 mm x 1524 mm DENTAL EQUIPMENT: Dental Central suction system, average Dental compressor, average Dental chair, electric or hydraulic, average Drill console with accessories, average Light, ceiling mounted, average Dental Sterilizer X-ray unit, wall, average X-ray panoramic unit, deluxe Developers, x-ray, average EMERGENCY EQUIPMENT:		1.000 1.000 1.000 1.000	Skilled Worker Common Laborer Power Tool Skilled Foreman Skilled Worker Common Laborer	4.000 8.000 1.000 0.500 2.500 3.000 4.000 5.000 1.250 8.000	5.000 9.000 2.000 1.000 1.000 3.000 5.000 6.000 1.000 9.000	4.500 8.500 2.000 1.000 0.750 2.750 3.000 4.500 5.500 1.125 8.500	2.000 1.000 4.000 8.000 16.000 3.200 2.667 2.000 1.600 6.400
17 104-0600 17 110 17 110 17 111-0100 17 111-0300 17 111-0600 17 111-1000 17 111-2000 17 111-3000 17 111-3000 17 111-3000 17 111-3000 17 111-3000 17 111-3000 17 111-3000 17 111-3000 17 120-0100 17 120-0100	Stainless steel, suture/drug cabinet; 1220 mm x 460 mm x 1524 mm DENTAL EQUIPMENT: Dental Central suction system, average Dental compressor, average Dental chair, electric or hydraulic, average Drill console with accessories, average Light, ceiling mounted, average Dental Sterilizer X-ray unit, wall, average X-ray panoramic unit, deluxe Developers, x-ray, average EMERGENCY EQUIPMENT: Treatment cabinet with suction compressor		1.000 1.000 1.000 1.000	Skilled Worker Common Laborer Power Tool Skilled Foreman Skilled Worker Common Laborer	4.000 8.000 1.000 0.500 2.500 3.000 4.000 5.000 1.250 8.000	5.000 9.000 2.000 1.000 1.000 3.000 5.000 6.000 1.000 9.000	4.500 8.500 2.000 1.000 0.750 2.750 3.000 4.500 5.500 1.125 8.500	2.000 1.000 4.000 8.000 16.000 3.200 2.667 2.000 1.600 1.000

CSI	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX	D. O. AVRG.	AVRO E. H
117 120-0500	Examination room furnishings	ROOM		1.000	1.000	1.000	8
117 120-0600	Scale physician's, with height rod, handling in	EA		10.000	12.000	11.000	0
	Medicine station		 	7.000	8.000	7.500	1
117 125	FILING EQUIPMENT:		L	-			
117 125-1000	Filing cabinets 2.74 m high metal painted complete with tracks including	LM	0.125 Skilled Foreman 1.000 Skilled Workers 1.000 Common Laborer 1.000 Power Tool	0.900	1.000	0.950	8
117 130	HYDROTHERAPY EQUIPMENT:		1.000 Fower tool				
117 130-0100	Heated therapy unit, humidified, tank with accessories, stainless steel, 335 imperial gal.	EA	0.125 Skilled Foreman 1.000 Skilled Workers 1.000 Common Laborer 1.000 Power Tool	1.500	2.000	1,750	5
117 130-0120	Treatment tank 4000 liters			1.500	2.000	1.750	5
117 130-0200	Heated therapy unit, humidified, tank with accessories, stainless steel. 200 imperial gal.			2.000	2.000	2.000	4
117 130-0300	Hubbard tank, 400 gallon, stainless steel			1.500	2.000	1,750	5
117 130-0400	Whirlpool bath, fixed, including mixing valves, stainless steel, 457 mm x 610 mm x 1524 mm			3.000	3.000	3.000	2
117 130-0500	Whirlpool bath, fixed, including mixing valves, stainless steel, 25 imperial gallon			4.000	5.000	4,500	2
117 130-0600	Moisture heat therapy unit table			9.000	10.000	9.500	0
117 130-0700	Paraffin bath 325 K, auto controlled	1		3.000	3.000	3.000	2
117 140	INHALATION THERAPY EQUIPMENT:						
117 140-0100	inhaler	EA	0.125 Skilled Foreman 1.000 Skilled Workers 1.000 Common Laborer 1.000 Power Tool	18.000	21.000	19.500	O
117 140-0200	Lung air volume tester		THOSE I SWELL ISS.	8.000	9.000	8.500	1
The state of the s	Ventilator complete			18.000	21.000	19.500	C
	Suction unit, stainless steel cabinet		1	16.000	18.000	17.000	C
117 150	LABORATORY EQUIPMENT: See also Div. 116001						
117 150-0100	Stainless steel, specimen pass thru boxes	EA	0,125 Skilled Foreman 1,000 Skilled Workers 1,000 Common Laborer 1,000 Power Tool	1.000	1.000	1.000	8
117 150-0200	Distiller, water, steam heated 10 gallon			5.000	6.000	5.500	1
117 150-0500	Stainless steel water tank 40 gallon			5.000	6.000	5.500	1
117 150-0600	Laboratory washer			3.000	3.000	3.000	2
117 150-0700	Blood plasma freezer, 0.58 cum, 7 drawers, 863 mm x 910 mm x 2030 mm high			5.000	6.000	5.500	1
117 150-0800	Blood plasma freezer, 1.15 cum, 14 drawers, 1500 mm x 910 mm x 2057 mm high			4.000	5.000	4.500	2
117 155	LAUNDRY HOSPITAL EQUIPMENT: See also div. 111101		- Y	+			
		122	0.125 Skilled Foreman 2.000 Skilled Workers	0.450	0.500	0.005	
Partirant Relimier	Extractor 100 kg, with accessories	EA	1.000 Common Laborer 1.000 Power Tool	0.150	0.500	0.325	53
	Washer/extractor 300 kg.	-		0.080	0.100	0.090	100
	Dryer steam 200 kg	++-		0.180	0.500	0.340	44
	ironer/folder; 2 lane	++		0.200	0.500	0.350	40
	Flat ironer, 6 roller	+	ļ	0.080	0.100	0.090	100
Sowers out I	Folder 3 lane	+	· · · · · · · · · · · · · · · · · · ·	0.300	0.500	0.400	26
117 160	MONITORING EQUIPMENT:	T	0.125 Skilled Foreman	1			
117 160-0100	CCU/ICU Cardioscope, 1 channel, bed side	EA	1,000 Skilled Workers 1,000 Common Laborer 1,000 Power Tool	2.000	2.000	2.000	4
117 160-0200	BP monitor, with readout, bed side			2.000	2,000	2.000	4
117 160-0300	Nurse display for CCU beds, including beds	1		0.500	1.000	0.750	16
117 165	MORTUARY EQUIPMENT:						
117 165-0100	Autopsy table standard	EA	0.125 Skilled Foreman 1,000 Skilled Workers 1,000 Common Laborer 1,000 Power Tool	4.000	5.000	4.500	2
117 165-0200	Mortuary refer, 2 tier, 6 places			0.80	7:45Eco.	J. 1864	10
La contrata de la contrata del contrata del contrata de la contrata del la contrata de la contrata del contrata del la contrata del la contra	Mortuary refer, 2 tier, 4 places			1.000	1.000	1.000	8
			-		11.5	0.800	13

CSI CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX	D. O. AVRG.	AVRG. E. H.
117 170	NUCLEAR EQUIPMENT:				C		THE THE PARTY OF
117 170-0100	Gama camera, single head, multiformat imaging, computerized w/software, black and white a color polariod camera	EA	0.125 Skilled Foreman 1.000 Skilled Workers 1.000 Common Laborer 1.000 Power Tool	0.100	0.500	0.300	80.000
117 170-0200	Stress system, nuclear cardiology	TT		0.100	0.500	0.300	80.000
117 170-0300	Heat system, nuclear cardiology	1		2.000	2.000	2.000	4.000
117 174	NURSING & NURSING STATION EQUIPMENT:		-		0.000	0.000	
117 174-0100	Nurse call, 2 way, audio visual, 40 station	EA	0.125 Skilled Foremen 1.000 Skilled Worker 1.000 Common Laborer 1.000 Power Tool	0.200	0.500	0.350	40.000
117 174-0120	Staff locating station			12.000	14.000	13.000	0.667
117 174-0200	Stainless steel, nourishment station, 2.1 x 2 m			3.000	3.000	3.000	2.667
117 174-0500	Medical preparation cabinet, stainless steel, 1800 mm x 2030 mm	LM	n\	3.000	3.000	3.000	2.667
117 180	OBSTETRICAL & NURSERY EQUIPMENT:						
117 180-0100	Delivery table	EA	0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common Laborer 1.000 Power Tools	0.800	1.000	0.900	10.000
117 180-0200	Incubator, isolation			6.000	7.000	6.500	1.333
117 180-0300	Incubator, warming			6.000	7.000	6.500	1.333
117 182	PHYSICAL THERAPY EQUIPMENT:						
117 182-0100	Tables walk-off electric	EA	0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common Laborer 1.000 Power Tools	2.000	2.000	2.000	4.000
117 182-0200	Exercise chair			4.000	5.000	4.500	2.000
117 182-0300	Treadmill, motorized, 5 speeds			6.000	7.000	6.500	1.333
117 182-0400	Treadmill, adjustable			12.000	14.000	13.000	0.667
117 182-0600	Station, dietary	1	24	1.750	2.000	1.875	4.571
117 190	STERILIZERS:						
17 190-0100	Sterilizer, floor loading, 710 mm x 1700 mm x 1320 mm, 1 or 2 door, steam	EA	0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common Laborer 1.000 Tool Set	0.070	0,100	0.085	114.286
17 190-0200	Sterilizer, recessed with automatic doors, 600 mm x 915 mm x 1220 mm, steam, pass - thru.	EA	0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common Laborer 1.000 Tool Set	0.100	0.500	0.300	80.000
17 190-0300	Sterilizer, recessed with automatic doors, 600 x 915 mm x 915 mm, 1 door steam			0.100	0.500	0.300	80.000
17 190-0400	Sterilizer, recessed with automatic doors, 600 mm x 915 mm x 1520 mm, 1 door gas			0.120	0.500	0.310	66.667
17 190-0500	Sterilizer, recessed with automatic doors, 600 mm x 915 mm x 1520 mm,			0.120	0.500	0.310	66.667
	gas, pass-thru. Sterilizer, recessed with automatic doors, 600 mm x 915 mm x 1520 mm,	+		0.110	0.500	5000000	
	gas/cryogenic Gas aerator 600 mm x 915 mm x 1520 mm	++-		-		0.305	72.727
	Gas aerator 400 mm x 915 mm x 1220 mm	+		0.850	1.000	0.925	9.412
-turning reasons	Steam generator up to 10 HP	+		1.500	2.000	1.750	5.333
	SURGICAL EQUIPMENT:	+	*	1.750	2.000	1.875	4.571
	Surgery table, minor, stationary, electrical	EA	0.125 Skilled Foremen 1.000 Skilled Worke: 1.000 Common Laborer 1.000 Tool Set	0.700	1.000	0.850	11.429
17 192-0200	Surgery table, stationary, electrical			0.500	1.000	0.750	16.000
17 192-0220	Surgery table, orthopedic, stationary, electrical			0.600	1,000	0.800	13.333
17 192-0240	Surgery service island			0.700	1.000	0.850	11.429
17 192-0300	Surgical light single arm			1.250	1.000	1.125	6.400
17 192-0400	Surgical light dual arm			0.800	1.000	0.900	10.000
7 192-0500	Surgical light triple arm			0.750	1.000	0.875	10.667
7 192-0550	Surgical light, major operation room, dual head average			0.700	1.000	0.850	11.429
7 192-1000	scrub surgical, stainless steel, 3 way unit station, average		1	1.100	1.000	1.050	7.273
17 196	WASHERS, UTENSILES & INSTRUMENTS:						
7 196-0100	Utensil washer-sterilizer, 685 mm x 685 mm x 1524 mm, free stand	FA	0.125 Skilled Foreman 1.000 Skilled Workers 1.000 Common Laborer	0.600	1.000	0.800	13.333

CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX	D. O. AVRG.	AVRG. E. H.
117 196-0200	Utensil washer, conveyor, pass-thru			0.150	0.500	0.325	53.33
117 196-0300	Instrument cleaner, sonic, 2 compartment			0.300	0.500	0.400	26.66
117 196-0400	Glass washer, steam, 400 mm x 500 mm x 400 mm, pass-thru			0.200	0.500	0.350	40.00
117 196-0500	Drying oven, 635 mm x 635 mm x 1270 mm, steam			0.650	1.000	0.825	12.30
117 196-0600	Charging table stainless steel, 2 sink, 1350 mm	1		3.000	3.000	3.000	2.66
117 198	X-RAY EQUIPMENT:						
117 198-0100	X-ray stationery average	EA	0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common Laborer 1.000 Tool Set	0.500	1.000	0.750	16.000
117 198-0200	X-ray, Cardiac catheterization unit, complete		1.000 Skilled Foreman 0.500 High Skilled SApecialist 3.000 Skilled Workers 2.000 Common Laborer 2.000 Special Tool Set	0.200	0.500	0.350	40.000
117 198-0300	X-ray ceiling mounted, general purpose		0 125 Skilled Foreman 1,000 Skilled Worker 1,000 Common Laboter 1,000 Tool Set	0.200	0.500	0,350	40.000
117 198-0400	X-ray Dark room safelight, 600 mm long fluorescent with filter			6.000	7.000	6,500	1.333
117 198-0500	X-ray developing tank, 10 gallon, stainless steel complete with mixing valves			2.000	2.000	2.000	4.000
117 198-0600	X-ray, film handling unit, automatic day light, floor mounted		•	1.250	1.000	1,125	6,400
117 198-0700	X-ray, Magnetic resonance imaging, 1.5 Tesla		1.000 Skilled Foreman 0.500 High Skilled Specialist 3.000 Skilled Workers 2.000 Common Laborer 2.000 Special Tool Set	0.100	0.500	0.300	80.000
117 198-0800	X-ray, Radiographic units, Mammographic, vertically adjustable plate		0.125 Skilled Foreman 1,000 Skilled Worker 1,000 Common Laborer 1,000 Tool Set	0.500	1.000	0.750	16.000
117 198-0900	X-ray, Scanners, computed topography, complete and with computer and console		1.000 Skilled Foreman 0.500 High Skilled Specialist 3.000 skilled Workers 2.000 Common Laborer 2.000 Special Tool Set	0.150	0.500	0.325	53.333
117 198-1000	X-ray wall mounted, chest		0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common Laborer 1.000 Tool Set	0.600	1.000	0.800	13.333
117 198-1100	X-ray table		H	0.350	0.500	0.425	22.857

Division 12 Furnishings

Division 12.. Furnishings..

Estimating Tips:

General

Most of these items are purchased by the owner and placed by the supplier. Do not assume the items in this division will be purchased and installed by the supplier.

Check the specifications for responsibilities and include receiving, installation and mechanical and electrical hook-ups in the appropriate divisions.

Some items require some type of support system that is not usually furnished with the item. Examples of these systems include blocking for the attachment casework and heavy drapery rods.

CSI	ITEM DESCRIPTION	רואט		CREW	D. O.	D. O.	D. O.	EQUIP.
CODE		UNII	STI	RUCTURE	MIN.	MAX.	AVERG.	HOURS
123	MANUFACTURED CASEWORK						+	
123 010	METAL CASEWORK							
123 015	KEY CABINETS:							
123 015-001	D Key cabinet, wall mounted, 60 key capacity	EA	0.125 Labor 1.000 Carpe 1.000 Comm 1.000 Tools	nter non Laborer	8.000	9.000	8.500	0.3
23 015-010	Key cabinet, wall mounted, 1200 key capacity				8.000	9.000	8.500	0.6
23 015-020	Key cabinet,drawer type, 600 key capacity				8.000	9.000	8.500	0.4
23 015-0500	Key cabinet,tray type, 50 key capacity	1			8.000	9.000	8.500	0.2
123 500	HOSPITAL CASEWORK			2 27A2-22-1	11			
123 501	CABINETS: For wood kitchen cabinets, see division 064-102							
23 501-0500	Cabinets, hospital, base cabinets, laminated plastic or stainless steel	LM	0.125 Labor 1.000 Carper 1.000 Comm 1.000 Power	nter on Laborer	8.000	9.000	8.500	1.3
23 501-1300	Hospital, cabinet base trim, 100 mm high, enameled steel or stainless steel	LM			8.000	9.000	8.500	0.1
23 501-1650	Hospital cabinet counter top, laminated plastic or stainless steel, with backsplash	SQM			8.000	9.000	8.500	0.8
23 501-1800	Hospital cabinet counter top, plastic with sink cutout & backsplash	EA			8.000	9.000	8.500	2.0
23 501-2000	Hospital cabinet drop-in stainless steel counter top 1092 mm x 533 mm sink	SOM			8.000	9.000	8.500	0.8
23 501-2100	Hospital cabinet nurses station, door type, laminated plastic, enameled steel or stainless steel	LM			8.000	9.000	8.500	2.66
23 501-2400	Hospital cabinet, nurses station, door type, laminated plastic, four drawer type	†			8.000	9.000	8.500	2.00
23 501-2500	Hospital wall replicate with place down law installed in the				8.000	9.000	8.500	2.00
23 501-3500	Hospital,kitchen base cabinets, metal, average	++-	-		8.000	9.000	8.500	2000
CV 8 (0)	Hospital, kitchen wall cabinets, metal, average	++		+	8.000	9.000	8.500	1.1
	School cabinets, 610 mm deep, metal, 2.1 m high units				8.000	9.000	8.500	1.00
23 501-5150					8.000	9.000	8.500	1.14
23 501-5450	School cabinets, wood custom fabricated, 610 mm deep, 810 mm high counter				8.000	9.000	8.500	1.14
	Counter top for school cabinets, with backsplash.	SQM		1	8.000	9.000	8.500	0.88
23 800	DISPLAY CASEWORK		-	1		0.000	0.000	0.00
23 801	DISPLAY CASES:							
3 801-0020	Display cases, all glass, aluminum, or wood, or bronze frame, 1067 mm high x 914 mm x 300 mm deep, free standing.	EA	0.125 Labor F 2.000 Carpent 1.000 Commo 1.000 Tools Se	er n Laborer	8.000	9.000	8.500	0.80
3 801-0100	Display cases, all glass, aluminum, or wood, or bronze frame, 1780 mm high x 1220 mm x 457 mm deep, free standing				8.000	9.000	8.500	1.00
3 801-2010	Display cases, glass front, aluminum frame, non-illuminated, one section				8.000	Company Con	A 404 A 404	
	914 mm x 1220mm x 400mm, wall mounted. Display cases, glass front, aluminum frame non-illuminated, one section	++-		-	6.000	9.000	8.500	1.33
W. P. C. C. C. T. J.	1525 mm x 1220 mm x 406 mm, wall mounted.				8.000	9.000	8.500	1.60
O DO I ELOU	Display cases, glass front, aluminum frame, non-illuminated, one section 1830 mm x 1220 mm x 400 mm, wall mounted.				8.000	9.000	8.500	2.00
3 801-2500	Display cases, glass front, aluminum frame, non-illuminated, two section 2.4 m x 1.2 m x 400 mm, wall mounted.				8.000	9.000	8.500	2.66
3 801-2600	Display cases, glass front, aluminum, wood or bronze frame non-illuminated,				8.000	9.000	8.500	0.00
3 801-3000	two section 3048 mm x 1219 mm x 406 mm, wall mounted. Display cases, glass front, aluminum frame, non-illuminated, three section						200000	3.20
	4.8 m x 1.21 m x 400 mm, wall mounted. Display cases, glass front, aluminum frame, illuminated with fluorescent lights, one	+			8.000	9.000	8.500	4.000
3 801-3500	section 914 mm x 1220 mm x 400 mm, wall mounted.	SECTION			8.000	9.000	8.500	1.333
3 801-4100	Table exhibit cases, 914 mm wide, 914 mm high, 1220 mm long, sloping top	EA			8.000	9.000	8.500	2.000
AND DESCRIPTION OF THE PARTY OF	RESIDENTIAL CASEWORK	1						
23 905	RONING CENTER:				- 1750/2011			
3 905-0010	roning center, including cabinet, board & light, average	EA	0.125 Labor Fo 1.000 Carpente 1.000 Common 1.000 Power To	r Laborer	8.000	9.000	8.500	3.200
25	WINDOW TREATMENT							Service .
AND PARTIETY	BLINDS	an Line	1 2 1		197			
A CHARDEN		1	1.125 Labor For		8.000	9.000	8.500	0.160
25 100	Blinds, interior, solid colors, horizontal, 25 mm aluminum slats, average	SQM	1.000 Common		0.000	1115	0.000	0.700
25 100 I 5 103-0090 E	Blinds, interior, solid colors, horizontal, 25 mm aluminum slats, average Blinds, interior, solid colors, horizontal, 50 mm aluminum or steel slats, average	SQM			8.000	9.000		Syreis
25 100 I 5 103-0090 E 5 103-0250 E		SQM	1.000 Common				8.500 8.500	0.200
25 100 E 5 103-0090 E 5 103-0250 E 5 103-1500 E	Blinds, interior, solid colors, horizontal, 50 mm aluminum or steel slats, average	SQM	1.000 Common		8.000	9.000	8.500	0.200

CSI CSI	N 12 : FURNISHINGS ITEM DESCRIPTION	UNIT	CREW	D. O.	D. O.	D. O.	EQUIP.
CODE			STRUCTURE	MIN.	MAX.	AVERG.	HOURS
5 103-3600	Blinds, interior, wood folding panels with movable louvers, 250 mm x 1010 mm each	PAIR	0.125 Labor Forman	8.000	9.000	8.500	0.400
5 103-4300	Blinds, interior, wood folding panels with fixed louver type, 300 mm x 910 mm each	PAIR	1,000 Carpenter 1,000 Common Laborer 1,000 Power Tools	8.000	9.000	8.500	0.400
25 103-5750	Blinds, interior, wood raised panel type, 406 mm x 914 mm			8.000	9.000	8.500	0.400
25 200	SHADES						
25 201	SHADES:						
25 201-0200	Shades basswood, roll-up, stain finish, 22 mm slats	SOM	0.125 Labor Forman 1.000 Carpenter 1.000 Common Laborer 1.000 Power Tools	8.000	9.000	8.500	0.200
25 201-0900	Shades, mylar, non-heat reflective, single or double layer			8.000	9.000	B.500	0.114
25 201-1500	Shades, vinyl heavy weight, 6 gauge			8.000	9.000	8.500	0.114
25 201-3000	Shades, woven aluminum 10 mm thick, lightproof and fireproof	+		8.000	9.000	8.500	0.229
25 300	DRAPE / CURTAIN HARDWARE						
25 301	DRAPERY HARDWARE:						
25 301-0030	Drape/curtain, standard traverse, per meter, average	LM	0:125 Labor Forman 1:000 Carpenter 1:000 Common Laborer 1:000 Power Tools	8.000	9.000	8.500	0.333
25 301-4000	Drape/curtain, traverse rods, adjustable, 710 mm to 1220 mm	EA		8.000	9.000	8.500	0.400
25 301-4020	Drape/curtain,traverse rods, adjustable, 1220 mm to 2135 mm			8.000	9.000	8.500	0.444
25 301-4040	Drape/curtain,traverse rods, adjustable, 1676 mm to 3050 mm			8.000	9.000	8.500	0.500
25 301-4060	Drape/curtain,traverse rods, adjustable, 2135 mm to 3960 mm			8.000	9.000	8.500	0.57
25 301-4080	Drape/curtain,traverse rods, adjustable, 3048 mm to 5590 mm			8.000	9.000	8.500	0.667
25 301-4100	Drape/curtain,traverse rods, adjustable, 5790 mm to 7925 mm			8.000	9.000	8.500	0.72
26	FURNITURE & ACCESSORIES		1. 公子里各种		STATE OF		
26 100	LANDSCAPE PARTITIONS						
26 105	PANELS & DIVIDERS:		V				
26 105-0100	Fabric panel, fire rated, fabric edged, 1 m high, 0,6 m wide	EA	0.125 Labor Formen 2.000 Common Laborer	0.000	0.000	0.000	0.000
26 105-0300	Fabric panel, fire rated, fabric edged, 1 m high, 1.5 m wide			0.000	0.000	0.000	0.000
26 105-0480	Fabric panel, fire rated, fabric edged, 1.5 m high, 1.5 m wide			0.000	0.000	0.000	0.000
26 105-1400	Fabric panel, fire rated, fabric edged, 1.8 m high, 1.5 m wide			0.000	0.000	V-7115-374	0.000
26 105-2400	Fabric panel, fire rated, hardwood edged, 1.5 m high, 1.5 m wide			0.000	0.000	1000000	0.000
26 105-2860	Fabric panel, fire rated, hardwood edged, 1.8 m high, 1.5 m wide	+	.	0.000	0.000	0.000	0.000
126 200	FURNITURE						
126 203	BANK FUIRNITURE: See Division 126	222					
126 206	FURNITURE, DORMITORY: LOW RISE BUILDING 2 FLOORS						
26 206-0100	Dormitory, single bed complete,hardwood, average	EA	0.125 Labor Forman 1.000 Carpenter 1.000 Common Laborer 1.000 Power Tools	8.000	9.000	8.500	0.50
26 206-0120	Dormitory, single bed 2 layers complete,hardwood, average			8.000	9.000	8.500	0.66
26 206-0200	Dormitory wardrobe, 1 m wide.			8.000	9.000		0.57
26 206-1000	Dormitory, built-in chest, four drawer, average	1		8.000	9.000	10000000	3.20
26 206-1200	Dormitory, desk top, built-in, laminated plastic, 610 mm deep, average	LM		8.000	9.000	9000000	0.66
26 206-1450	Dormitory, desk top, built-in, laminated plastic, 760 mm deep, average			8.000	9.000		0.72
26 206-1750	Dormitory, dressing unit, built-in, average	EA	+	8.000	9.000	8.500	3.20
126 210	FURNITURE, HOSPITAL: LOW RISE BUILDING UP TO 4 F	LOORS					
26 210-0100	Hospital beds,manual, average	EA	0.125 Skilled Forman 1,000 Skilled Labor 1,000 Common Laborer 1,000 Power Tool	8.000	9.000	8.500	2 00
26 210-0300	Hospital bed, manual and electric, average			8.000	9.000	8.500	2.66
26 210-0600	Hospital bed, all electric, average			8.000	9.000		4.00
26 210-0900	Hospital bed, manual, nursing home, average			8.000	9,000	1	1.60
26 210-1100	Hospital, overbed table,laminated top			8.000	9.000		0.16
26 210-1200	Hospital, patient wall systems not including plumbing average			8.000	9.000	-	2 66
26 210-2000	Hospital TV set, 480 mm ceiling hung	1	1	8.000	9.000	b.5(.0)	9.0
126 214	FURNITURE, HOTEL: LOW RISE BUILDING UP TO 7 FLOO	ORS				-	
126 214-0010	Hotel front desk, built-in, base cabinets, continuous shelf oak top. 610 mm wide, quality granite top, provided with raceways for data & power wining	LM	1.000 Carpenter 1.000 Common Laborer 1.000 Power Tools	8.000	9.000	8.500	8.00

CODE	ITEM DESCRIPTION	UNIT	114 5	REW	D. O. MIN.	D. O. MAX.	D. O. AVERG.	EQUIP.
126 214-0020	Hotel lodge in quality, guest room set,2 beds/room, complete with standard furniture average	ROOM	0.125 Labor F 2.000 Carpent 0.250 Electrici 3.000 Commo 1.000 Power 1	er an n Laborer	8.000	9.000	8.500	13.70
126 214-0050	Hotel 3 star guest room, 2 beds per room, complete with standard furniture, average				8.000	9.000	8.500	17.15
126 214-0100	Hotel 4 star guest room, average				8.000	9.000	8.500	29.80
126 214-0200	Hotel 5 star guest room, average				8.000	9.000	8.500	39.01
126 214-0300	Hotel guest room, twin bed,cherry, complete	EA	0.125 Labor Fr 1.000 Carpenti 1.000 Commor 1.000 Power T	er Laborer	8.000	9.000	8.500	0.80
126 214-0400	Hotel guest room bed, queen size, oak, complete				8.000	9.000	8.500	1.00
126 214-0500	Hotel guest room bed, king size, cherry complete				8.000	9.000	8.500	1.14
126 214-1000	Hotel guest room, desk & chair, cherry, 600 mm x 1000 mm x 740 mm.				8.000	9.000	8.500	0.333
126 214-1600	Hotel guest room, dining table chair, quality fabric, padded, and solid cherry.		1		8.000	9.000	8.500	0.14
126 214-1700	Hotel guest room, dining table, cherry.				8.000	9.000	8.500	0.286
26 214-2000	Hotel guest room, dresser unit, cherry, 1.6 m long				8.000	9.000	8.500	0.667
26 214-2500	Hotel guest room, luggage table/ rack		0 125 Labor Fo 1.000 Common		0.000	0.000	0.000	0.000
26 214-3000	Hotel guest room, night table		1.000 Common	Catorer	8.000	9.000	8.500	0.178
26 214-3500	Hotel refrigerator unit				8.000	9.000	8.500	0.250
26 214-4000	Hotel guest room, safe, with battery back-up	_			8.000	9.000	8.500	0.400
HAROCOLONIA - SANCHI	Hotel guest room, sofa, quality all fabric	_			8.000	9.000	8.500	0.333
	Hotel guest room, stand light 100 watt	+	1 Electrician	·	8.000	9.000	8.500	0.400
-20041 57 8011 11510 115	Hotel guest room, table lamp. 100 watt		1 Tools Set		8.000	9.000	8.500	0.400
Marie Calaba Marie Calaba Calaba	Hotel guest room top chair, quality all fabric	+	0.125 Labor Fo	rman	0.000	0.000	0.000	
	Hotel guest room, TV set, with tuner, 480 mm screen	+	1.000 Common 1 Electrician	Laborer		COLUMN	200025	0.000
a to a value of the same of th	Carton on the control of the control	•	1 Tools Set		8.000	9,000	8.500	0.667
126 218	FURNITURE, LIBRARY:		10					
26 218-0100	Library, attendant desk, 914 mm x 1575 mm x 737 mm high	EA	0 125 Labor For 1 000 Carpente 1 000 Common 1 000 Power To	r Laborer	8.000	9.000	8.500	0.400
26 218-0220	Library, table with bulletin board				8.000	9.000	8.500	0.400
26 218-0800	Library, card catalogue, 30 tray unit				8,000	9.000	8.500	0.308
26 218-0840	Library, card catalogue, 60 tray unit				8.000	9.000	8.500	0.400
26 218-0880	Library, card catalogue, 72 tray unit				8.000	9.000	8.500	0.500
26 218-1000	Library, carrels, double face, initial unit, 914 mm x 600 mm x 738 mm.				8.000	9.000	8.500	0.571
26 218-4000	Library, dictionary stand, stationary, or revolving				8.000	9.000	8.500	0.308
26 218-4200	Library, exhibit case, table style, 1524 mm x 711 mm x 914 mm				8.000	9.000	8.500	0.471
26 222	FURNITURE, OFFICE: LOW RISE BUILDING UP TO 7 FLO	ORS				100000		277257210
26 222-0020	Office desk,metal double pedestal 760 mm high, 760 mm wide, 1.5 m long	EA	0.125 Labor For		0.000	0.000	0.000	0.000
	Office desk,metal double pedestal 760 mm high, 900 mm wide, 1.8 m long	1	2.000 Common I	aborer	0.000	0.000	0.000	0.000
	Office desk,wood double pedestal 760 mm high, 760 mm wide, 1.5 m long	+			0.000	0.000	0.000	0.000
contract with the contract of	Office desk,wood double pedestal 760 mm high, 900 mm wide, 1.8 m long	+			0.000	0.000	0.000	380,0046
12712-01M1-2071	Executive desk with side extension, 2 m long		0.125 Labor For 1.000 Carpenter 1.000 Common I 1.000 Power To	aborer	8.000	9.000	8.500	0.000
6 222-0400	Office metal desk,single pedestal, 760 mm high, 760 mm wide, 1.5 m long.		0.125 Labor For	man	0.000	0.000	0.000	0.000
	Office wood desk,single pedestal, 760 mm high, 760 mm wide, 1.5 m long		2.000 Common L	aborer	0.000	0.000	0.000	0.000
Property Street	Secretarial desk unit,metal, 457 mm x 1100 mm	1	0.125 Labor For 1,000 Carpenter 1,000 Common L	aborer	B.000	9.000	8.500	0.533
6 222-1500	Computer station unit with upper shelf		1.000 Power Too	olis .	8.000	9.000	9.500	0.007
6 222-6000	Office furniture, conference table 12 persons,wood, cherry veneered,boat, 1.35 m x 4		0.125 Labor Form 1,000 Carpenter 2,000 Common L	nari aborer	8.000	9.000	8.500 8.500	0.667 2.667
6 222-6050	Office conference table, 16 persons, solid wood, oak facing, boat, 1.35 m x 4.8 m,	+ 1	1.000 Power Too	MS	-			
8	average				8.000	9.000	8.500	3.200
	Office conference table, 20 persons, solid wood, oak facing, boat, 1.6 m x 5.4 m, average				8.000	9.000	8.500	4.000
6 222-6100	Office conference table, 24 persons, solid wood, oak facing, boat, 1.8 m x 6.0 m,			The Late	8.000	9.000	8.500	4.571
	average Office conference table, 8 persons, solid wood, oak facing, rectangle, 1.2 m x 2.2 m,				2000,000		25.0000	

VISIO	N 12:	FURNISHINGS		UNIT		CREW STRUCTUF	11 3	D. O. MIN.	D. O. MAX.	D. O. AVERO		91220
CODE		ITEM DESC	cood,oak facing, rectangle, 1,2 m x 3.0 m,	EA	1.00	5 Labor Forman 0 Carpenter 0 Common Labore		B.000	9.000	8.5	500	1,333
222-6740					1,00	D Power Tools		8.000	9.000	8.	500	2.000
222-6760	Office of	onference table, 12 persons, solid w	good,oak facing, rectangle, 1.2 m x 4.0 m,	+	+			8.000	9.000	8	500	0.400
222-800	Office le	eather sofa, 3 persons average, inch	ading handling into bolishing	1						Ti.		
6 226	FURN	ITURE, RESTAURANT		LM	11.0	25 Labor Forman IOO Carpenter IOO Common Labor	er	8.000	9.00	0 8	500	3.333
	700	rant counter with base cabinets			1.0	000 Power Tools						
6 226-030	00 Restau	rant, booth seating, see division 12	7-401	LM	13	125 Labor Forman 000 Carpenter	V	8.000	9.00	00 1	8.500	0.133
26 226-20	000 Restai	urant, chair, bentwood side chair, m	retal, average		1	000 Common Labo 000 Power Tools	16					2 2000
	=110	NITURE, SCHOOL		1 5	- Ir	125 Labor Formar	1	0.000	0.0	00	0.000	0.000
26 230	FUR	WITORE, Solidoz	ompartment, average, handling into buildin	ng. E	A	2000 Common Lab	ores	0.000	0.0	00	0.000	0.000
26 230-20 26 230-20	200 School	ol desk, single pedestal, top book o ol desk, flip top, minimum, handling	into building	-		125 Labor Forma	ń	8.00		000	8.500	0.667
26 230-4	1000 Scho	ol desk, laboratory, w/ electrical ou	tlets, connected. & including handling			1,000 Carperter 1,000 Common Lat 1,000 Power Tools	ogref	8.00	5.0	,,,,		
100 500	o Elle	INITURE ACCESSORIES									4	
126 500	10000	TRASH RECEIVERS				0 125 Labor Form	an	0.00	0 0	000	0.000	0.000
126 501-	1 ASI	um, cylindrical metal, 250 mm diar	neter, 660 mm high	+	EA	1.000 Common L	aborer	0.00	00 0	.000	0.000	0.000
no E01	5540 Tras	th receptacle, plastic with lid 170 L		10110	14	1						
	- The Straight	ILTI MEDIA BOARDS	See Division	10110	-							
126 50	27 - 11800	OOR MATS & FRAMES										
126 90	Acris (1777-20)				De la	0.125 Labor For	man				- 500	0.333
126 90	01 FL	OOR MATS	the block 13 mm thick, solid	(1)	SOM	1 000 Carpenter		8.0	000	000.0	8.500	0.000
126 901	or or	nertorated	in laid black rubber, 13 mm thick, solid	- 1	1	1 000 Common I 1 000 Power To	ols	8.9	000	9.000	8.500	0.400
00.004	. 0600 Ele	or link mats, including nosings, all	uminum, or galvanized steel 10 mm thick	-	+			8.	000	9.000	8.500	1900
-	100000000000000000000000000000000000000	to the block 10 mm x b	TU min x 13 min brote	-	+	-		8.	000	9.000	8.500	0.667
126 90	1-0900 FR	of mat, state lock tile 305 mm x	305 mm x 13 mm outside corner, black		+			C SELL	0.70		N. C. S. C. C.	1
	11-1150 FI	IULTIPLE SEATING										
127		ISCELLANEOUS SEATING										
127 1	1500											
127 1	- W.	EATING	See div. 0287	704		- 1.05 P = 1.55 A	-					
	01-0010 5	eating benches,					Other Colonial				0.500	0.25
			See div. 0287			n 125 Labor F	orman			0.000	8.500	
127 10	01-0100 E	Sleachers,	See div. 0287		E	11,000 600	ter on Laborer		8.000	9.000		0.25
127 10			See div. 0287		-	2:000 Carpen 1:000 Common 1:000 Tools S	ter on Laborer		8.000	9.000	8.500	0.2
127 10	101-1000	Sleachers, .ecture hall seating, pedestal type,	See div. 0287 average		E	2:000 Carpen 1:000 Common 1:000 Tools S	ter on Laborer				8.500	0.2
127 10 127 1 127 1	101-1000	Bleachers, _ecture hall seating, pedestal type, Auditorium chair, seating, Padded	See div. 0287 average		-	2:000 Carpen 1:000 Common 1:000 Tools S	ter on Laborer				8.500	0.2
127 10 127 1 127 1 127 1	101-1000	Bleachers, Lecture hall seating, pedestal type, Auditorium chair, seating, Padded	See div. 0287 average		-	2 000 Carpen 1 000 Comm 1 000 Tools \$	ter on Laborer Set		8.000		8.500	
127 10 127 1 127 1 127 1 127	101-1000 L 101-2000 7 400 7 401	Bleachers, Lecture hall seating, pedestal type, Auditorium chair, seating, Padded & BOOTH & TABLES BOOTHS:	See div. 0287 average & veneered.			2 000 Carpen 1,000 Commit 1,000 Tools \$	Forman		8.000	9.000	8,500	0.6
127 10 127 1 127 1 127 1 127	101-2000 7 400 7 401	Bleachers, Lecture hall seating, pedestal type, Auditorium chair, seating, Padded BOOTH & TABLES BOOTHS: Booth, banquel, upholstered seat	See div. 0287 average & veneered. and back, straight average	708		0.125 Labor 2.000 Carpen 1.000 Tools 5	Forman		8.000	9.000	8.500	0.0
127 10 127 1 127 1 127 127 127	101-1000 L 101-2000 7 400 7 401-1000 401-1600	Bleachers, ecture hall seating, pedestal type, Auditorium chair, seating, Padded (BOOTH & TABLES BOOTHS: Booth, banquel, upholstered seat (Booth, banquel, upholstered seat (Booth, pertablicated seating, fixed)	See div. 0287 average & veneered. and back, straight average and back "L" or "U" shape, average d, one piece plastic chair and plastic lamin	708		2 000 Carpen 1,000 Commit 1,000 Tools \$ 0,125 Labor 2 000 Carpet 1,000 Tools	Forman		8.000 8.000	9.000	8.500 8.500 8.500	0.6
127 10 127 1 127 1 127 1 127 127	7 400 7 401 401-1600 7 401-1600	Bleachers, Lecture hall seating, pedestal type, Auditorium chair, seating, Padded is BOOTH & TABLES BOOTHS: Booth, banquet, upholstered seat is Booth, banquet, upholstered seat is Booth, pretabricated seating, fixed table top including four seat, 810. Booth, regrathricated seating, fixed	See div. 0287 average & veneered. and back, straight average and back "L" or "U" shape, average d, one piece plastic chair and plastic laminimm x 610 mm table, average d, one piece plastic chair and plastic laminimm x 610 mm table, average d, one piece plastic chair and plastic lamin	708		0.125 Labor 2.000 Carpen 1.000 Tools 5	Forman		8.000 8.000 8.000	9.000 9.000 9.000	8.500 8.500 8.500 8.500	0.0
127 10 127 11 127 1 127 1 127 127 127 127	101-1000 L 101-2000 7 400 7 401-1000 401-1600	Bleachers, Lecture hall seating, pedestal type, Auditorium cheir, seating, Padded of BOOTH & TABLES BOOTHS: Booth, banquet, uphoistered seat of Booth, prefabricated seating, fixed table top including four seat, 610. Booth, prefabricated seating, fixed table top including four seat, 610. Booth, prefabricated seating, fixed table top including four seat, 610. Booth, prefabricated seating, fixed table top including four seat, 610.	average 8 veneered. and back, straight average and back "L" or "U" shape, average d, one piece plastic chair and plastic lamin mm x 1220 mm table, average d, one piece plastic chair and plastic lamin mm x 1220 mm table, average d, one piece plastic chair and plastic lamin mm x 1930 mm table, average d, one piece plastic chair and plastic lamin mm x 1930 mm table, average d, one piece plastic chair and plastic lamin	nate		0.125 Labor 2.000 Carpen 1.000 Tools 5	Forman		8.000 8.000 8.000 8.000	9.000 9.000 9.000 9.000 9.000	8.500 8.500 8.500 8.500 8.500 0 8.500	0.25 0.6 0.8 0.9
127 10 127 1 127 1 127 1 127 127 127 127 127	7 400 7 401 401-1000 401-1600 7 401-3000 7 401-3300 7 401-3300	Bleachers, ecture hall seating, pedestal type, Auditorium chair, seating, Padded of BOOTH & TABLES BOOTHS: Booth, banquet, upholstered seat to be	average & veneered. and back, straight average and back "L" or "U" shape, average b, one piece plastic chair and plastic laminimm x 610 mm table, average d, one piece plastic chair and plastic laminimm x 1220 mm table, average d, one piece plastic chair and plastic laminimm x 1930 mm table, average d one piece plastic chair and plastic laminim x 1930 mm table, average d one piece plastic chair and plastic laminim x 1930 mm table, average	nate nate nate		0.125 Labor 2.000 Carpen 1.000 Tools 5	Forman		8.000 8.000 8.000 8.000 8.000 8.000	9.000 9.000 9.000 9.000 9.000	8.500 8.500 8.500 8.500 0 8.500 0 8.500	0.0
127 10 127 11 127 1 127 1 127 127 127 127 127 127 127	7 400 7 401 401-1000 7 401 401-1000 7 401-3000 7 401-3200 7 401-340	Bleachers, Lecture hall seating, pedestal type, Auditorium chair, seating, Padded of BOOTH & TABLES BOOTHS: Booth, banquet, uphoistered seat of Booth, prefabricated seating, fixed table too including four seat, 610. Booth, prefabricated seating, fixed table too including four seat, 610. Booth, prefabricated seating, fixed table too including four seat, 610. Booth, prefabricated seating, fixed table too including four seat, 610. Booth, prefabricated seating, fixed table too including four seat, 610. Booth, prefabricated seating, fixed table too including four seat, 610. Booth, prefabricated seating, fixed table too including four seat, 610.	average 8 veneered. and back, straight average and back "L" or "U" shape, average d, one piece plastic chair and plastic lamin mm x 610 mm table, average d, one piece plastic chair and plastic lamin mm x 1220 mm table, average d, one piece plastic chair and plastic lamin mm x 1930 mm table, average d one piece plastic chair and plastic lamin mm x 2590 mm table, average th plastic laminate, single booth, 610 mm x	nate nate nate nate		0.125 Labor 2.000 Carpen 1.000 Tools 5	Forman		8.000 8.000 8.000 8.000 8.000 8.000 8.000	9.000 9.000 9.000 9.000 9.000 9.000	8.500 8.500 8.500 8.500 0 8.500 0 8.500 0 8.500 0 8.500	0.0
127 10 127 11 127 1 127 127 127 127 127 127 127 127 127	7 401-3000 7 401-3000 7 401-401-3000 7 401-3000 7 401-3000 7 401-3400 7 401-3400 7 401-3400 7 401-3400	Bleachers, Lecture hall seating, pedestal type, Auditorium chair, seating, Padded at BOOTH & TABLES BOOTHS: Booth, banquet, upholstered seat Booth, prefabricated seating, fixed table top including four seat, 610 Booth, prefabricated seating, fixed table top including four seat, 610 Booth, prefabricated seating, fixed table top including four seat, 610 Booth, prefabricated seating, fixed table top including four seat, 610 Booth, prefabricated seating, fixed table top including four seat, 610 Booth, prefabricated seating, fixed table top including four seat, 610 Bree standing wood fiber core with the fixed table top including four seat, 610 Free standing wood fiber core with the fixed table top including four seat, 610 Free standing wood fiber core with the fixed table top including four seat, 610 Free standing wood fiber core with the fixed table top including four seat, 610 Free standing wood fiber core with the fixed table top including four seat, 610 Free standing wood fiber core with the fixed table top including four seat, 610 Free standing wood fiber core with the fixed table top including four seat, 610 Free standing wood fiber core with the fixed table top including four seat, 610 Free standing wood fiber core with the fixed table table top including four seat, 610 Free standing wood fiber core with the fixed table tabl	average 8 veneered. and back, straight average and back "L" or "U" shape, average 3, one piece plastic chair and plastic lamin mm x 100 mm table, average 4, one piece plastic chair and plastic lamin mm x 1920 mm table, average 4, one piece plastic chair and plastic lamin mm x 1930 mm table, average 4, one piece plastic chair and plastic lamin mm x 1930 mm table, average 4 one piece plastic chair and plastic lamin mm x 2590 mm table, average th plastic laminate, single booth, 610 mm v ith plastic laminate, single booth, 1220 mm ith plastic laminate, single booth, 1524 mm	nate nate nate wide wide n wide		0.125 Labor 2.000 Carpen 1.000 Tools 5	Forman		8.000 8.000 8.000 8.000 8.000 8.000	9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000	8.500 8.500 8.500 8.500 0 8.500 0 8.500 0 8.500 0 8.500 0 8.500	0.0
127 10 127 11 127 1 127 127 127 127 127 127 127 127 127	7 401-3000 7 401-3000 7 401-401-3000 7 401-3000 7 401-3000 7 401-3400 7 401-3400 7 401-3400 7 401-3400	Bleachers, Lecture hall seating, pedestal type, Auditorium chair, seating, Padded at BOOTH & TABLES BOOTHS: Booth, banquet, upholstered seat Booth, prefabricated seating, fixed table top including four seat, 610 Booth, prefabricated seating, fixed table top including four seat, 610 Booth, prefabricated seating, fixed table top including four seat, 610 Booth, prefabricated seating, fixed table top including four seat, 610 Booth, prefabricated seating, fixed table top including four seat, 610 Booth, prefabricated seating, fixed table top including four seat, 610 Bree standing wood fiber core with the fixed table top including four seat, 610 Free standing wood fiber core with the fixed table top including four seat, 610 Free standing wood fiber core with the fixed table top including four seat, 610 Free standing wood fiber core with the fixed table top including four seat, 610 Free standing wood fiber core with the fixed table top including four seat, 610 Free standing wood fiber core with the fixed table top including four seat, 610 Free standing wood fiber core with the fixed table top including four seat, 610 Free standing wood fiber core with the fixed table top including four seat, 610 Free standing wood fiber core with the fixed table table top including four seat, 610 Free standing wood fiber core with the fixed table tabl	average 8 veneered. and back, straight average and back "L" or "U" shape, average 3, one piece plastic chair and plastic lamin mm x 100 mm table, average 4, one piece plastic chair and plastic lamin mm x 1920 mm table, average 4, one piece plastic chair and plastic lamin mm x 1930 mm table, average 4, one piece plastic chair and plastic lamin mm x 1930 mm table, average 4 one piece plastic chair and plastic lamin mm x 2590 mm table, average th plastic laminate, single booth, 610 mm v ith plastic laminate, single booth, 1220 mm ith plastic laminate, single booth, 1524 mm	nate nate nate wide wide n wide		0.125 Labor 2.000 Carpen 1.000 Tools 5	Forman		8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000	9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000	8.500 8.500 8.500 8.500 0 8.500 0 8.500 0 8.500 0 8.500	0.0
127 10 127 11 127 1 127 127 127 127 127 127 127 127 127 12	7 401-3000 7 401-3000 7 401-401-3000 7 401-3000 7 401-3000 7 401-3400 7 401-3400 7 401-3400 7 401-3400	Bleachers, Lecture hall seating, pedestal type, Auditorium chair, seating, Padded at BOOTH & TABLES BOOTHS: Booth, banquet, upholstered seat Booth, prefabricated seating, fixed table top including four seat, 610 Booth, prefabricated seating, fixed table top including four seat, 610 Booth, prefabricated seating, fixed table top including four seat, 610 Booth, prefabricated seating, fixed table top including four seat, 610 Booth, prefabricated seating, fixed table top including four seat, 610 Booth, prefabricated seating, fixed table top including four seat, 610 Bree standing wood fiber core with the fixed table top including four seat, 610 Free standing wood fiber core with the fixed table top including four seat, 610 Free standing wood fiber core with the fixed table top including four seat, 610 Free standing wood fiber core with the fixed table top including four seat, 610 Free standing wood fiber core with the fixed table top including four seat, 610 Free standing wood fiber core with the fixed table top including four seat, 610 Free standing wood fiber core with the fixed table top including four seat, 610 Free standing wood fiber core with the fixed table top including four seat, 610 Free standing wood fiber core with the fixed table table top including four seat, 610 Free standing wood fiber core with the fixed table tabl	average 8 veneered. and back, straight average and back "L" or "U" shape, average b, one piece plastic chair and plastic lamin mm x 610 mm table, average d, one piece plastic chair and plastic lamin mm x 1220 mm table, average d, one piece plastic chair and plastic lamin mm x 1930 mm table, average d one piece plastic chair and plastic lamin mm x 1930 mm table, average the plastic laminate, single booth, 610 mm is the plastic laminate, single booth, 1220 mm the plastic laminate, single booth, 1524 mm the plastic laminate, double booth, 1220 mm the plastic laminate, double booth, 1220 mm	nate nate nate wide wide n wide		0.125 Labor 2.000 Carpen 1.000 Tools 5	Forman		8.000 8.000 8.000 8.000 8.000 8.000 8.000 8.000	9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000	8.500 8.500 8.500 8.500 0 8.500 0 8.500 0 8.500 0 8.500 0 8.500	0.0

N 12: FURNISHINGS	Selection of the Control of the Cont	· 基本的一个选择之	A STATE OF			
ITEM DESCRIPTION LINIT CREW		CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVERG.	EQUIP. HOURS
Planter, fiberglass, hanging, 300 mm diameter, 178 mm high	EA	0.125 Labor Forman 1.000 Carperter 1.000 Common Laborer 1.000 Power Tools	8.000	9.000	8.500	0.308
Planter, fiberglass, free standing, rectangular, 1524 mm long, 760 mm high x 710 mm v	vide		8.000	9.000	8.500	0.333
Planter, wood, fiberglass liner square, hanging, 360 mm square, 380 mm high, average			8.000	9.000	8.500	0.364
	Planter, fiberglass, hanging, 300 mm diameter, 178 mm high Planter, fiberglass, free standing, rectangular, 1524 mm long, 760 mm high x 710 mm v	ITEM DESCRIPTION UNIT	Planter, fiberglass, hanging, 300 mm diameter, 178 mm high Planter, fiberglass, hanging, 300 mm diameter, 178 mm high Planter, fiberglass, free standing, rectangular, 1524 mm long, 760 mm high x 710 mm wide	ITEM DESCRIPTION UNIT CREW STRUCTURE D. O. MIN. Planter, fiberglass, hanging, 300 mm diameter, 178 mm high EA 0.125 Labor Forman 1.000 Carperter 1.000 Common Laborer 1.000 Common Laborer 1.000 Power Tools 8.000	ITEM DESCRIPTION UNIT CREW STRUCTURE D. O. MIN. MAX. Planter, fiberglass, hanging, 300 mm diameter, 178 mm high EA 0.125 Labor Forman 1.000 Common Laborer 1.000 Common Laborer 1.000 Power Tools 8.000 9.000	TEM DESCRIPTION



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Division 13 Special Construction

Division 13.. Special Construction..

Estimating Tips:

General

The items and systems in this division are usually estimated, purchased, supplied and installed as a unit by one or more sub-contractors.

The estimator must ensure that all parties are operating from the same set of specifications and assumptions and that all necessary items are estimated and will be provided.

Many times the complex items and systems are covered but the more common ones such as excavation or a crane are overlooked for the very reason that everyone assumes nobody could miss them.

The estimator should be the central focus and be able to ensure that all systems are complete.

Estimators shall focus on all accessories for pre-engineered structures and utility supplies for some special construction items, usually missed on overlooked.

131 Pre-Engineered Structures:

Focus on estimating foundations, slabs as well as rough electro-mechanical installations. Usually as pre-engineered structures are provided as a shell, estimators shall focus on all additional items and features and good understanding to the scope of work required.

132 Tanks, Covers & Filtration Equipment:

Items listed in this book don't include foundation, tank accessories, guages, detection of additional man-holes and piping. Refer to related divisions 2, 3, and 15 to price such items.

CSI	ITEM DESCRIPTION	UNI	T	CREW	D. O.	D. O. MAX.	D. O.	AVRG.
CODE	75.00 05.00	UNI		STRUCTURE	MIN.	D. O. MAX.	AVRG.	E. H.
130	SPECIAL CONSTRUCTION	125						Alexander of
130 100	AIR SUPPORTED STRUCTURES							
130 111	AIR SUPPORTED STRUCTURES							
130 111-0100	Air supported warehouse, polyester/vinyl fabric, 794 gram, welded seams, tension cables, primary & auxiliary inflation system, airlock, personnel doors and liner up to 464 SQM	SOM FLOC	M 4	125 Labor Foreman Common Labor Tools Set	300.000	345.000	322.500	0.05
130 111-0400	Air supported warehouse, polyester/vinyl fabric, 794 gram, welded seams, tension cables, primary & auxiliary inflation system, airlock, personnel doors and liner above 1000 SQM		8	25 Labor Foreman Common Labor Tools Set	400.000	460.000	430.000	0.08
130 111-0750	Air supported warehouse, 340 gram reinforced vinyl fabric, sewn seams, accordion door, including liner 300 SQM		4	125 Labor Foreman Common Labor Tools Set	200.000	230.000	215.000	0.08
130 111-0850	Air supported warehouse, 340 gram reinforced vinyl fabric, sewn seams, accordion door, including liner over 1000 SQM		8	25 Labor Foremen Common Labor Tools Set	350.000	403.000	376.500	0.09
130 250	INTEGRATED CEILINGS							
130 251	INTEGRATED CEILINGS							
130 251-0100	Integrated lighting ceilings, acoustical, luminaire, with connections, 1.5 m x 1.5 m modules, 50% lighted	SQM	1.0.0.0	125 Labor Foreman 000 Carpenter 000 Heiper 500 Electrician 500 Sheet metal worker 000 Tools Set	5.500	6.000	5.750	1.45
130 251-0200	Integrated lighting ceilings, acoustical, luminaire, with connections, 1.5 m x 1.5 m modules, 100% lighted				3.000	3.000	3.000	2.66
130 251-1640	Integrated ceiling, grid sys. & tile , flat profile, 1.5 m x 1.5 m mod., 50% lighted, mineral fiber panels		1		50.000	58.000	54.000	0.16
130 251-1640	Integrated ceiling, grid sys. & tile only, flat profile, 1.5 m x 1.5 m mod., 100% lighted, mineral fiber panels		Ť		50.000	58.000	54.000	0.00
	Integrated vaulted ceiling, grid sys. & tile only, flat profile, 1.5 m x 1.5 m mod , 50% lighted, glass fiber panels	11	Ť		50.000	58.000	54.000	0.16
	SPECIAL PURPOSE ROOMS	-	-					2.340.2
130 305	DARKROOMS							
130 305-0010	Darkrooms shell, complete lead lining without door, 6 SQM, 2.4 m high	POM		25 Labor Forman	0.500	40.000		20122
		SQM		00 Carpenters 00 Tools Set	8.500	10.000	9.250	1.88
	Darkrooms shell, complete lead lining without door, 6 SQM, 3.6 m high				4.250	5.000	4.625	3.76
Description of the second	Darkrooms shell, complete with door, 11.15 SQM floor, 2438 mm high	1	+					
	Darkrooms shell, complete with door, 11.15 SQM floor, 3658 mm high	+-	+					
	Darkrooms shell, complete lead lining without door, 22 SQM floor, 2.4 m high	44	+		8.000	9.000	8.500	2.00
(EX1850) E82 (Darkrooms shell, complete lead lining without door, 22 SQM floor, 3.6 m high	+	_	 	4.000	5.000	4.500	4.00
2-	ATHLETIC ROOMS							
30 321	SPORT COURT	1	1			- 24		
30 321-0010	Sport court, floors, no. 2 & better maple, 20 mm thick	SQM	3.0	25 Labor Forman DD Carpenters DO Tools Set	10.000	12.000	11.000	1.600
30 321-0100	Sport court, walls, laminated plastic bonded to galv. steel studs		T		10.000	12.000	11.000	1.600
30 321-0470	Squash court, indoor, walls only, laminated plastic bonded to galv. steel studs			1	10.000	12.000	11.000	1,600
30 340	AUDIOMETRIC ROOMS		47.					
30 341	AUDIOMETRIC ROOMS							
30 341-0010	Audiometric rooms, under 46 SQM surface	SOM	4.00	25 Labor Foreman 00 Cerpenters 00 Tools Set	6.500	7.000	6.750	2.462
30 341-0100 A	Audiometric rooms, over 46 SQM surface	10			8.000	9.000	8.500	2.000
30 360 (CLEAN ROOMS							
30 361 (CLEAN ROOM							
	Clean room ceiling panel, vinyl coated foil on mineral substrate, sealed Is non-perforated	SQM	1.00	5 Labor Foreman 6 Carpenter 0 Helper	6.000	7.000	6.500	1.333
	ligh efficiency particulate air filter 0.6 m x 1.2m; 76 mm to 150 mm deep, beveled rame.	EA	1,00	0 Tools Set	4.000	5.000	4.500	2.000
	COLD STORAGE ROOMS	-	1			4,505	4.000	2,000
30 381 F	REFRIGERATION		-	-				
0 381-1000		-villate	2 50			-		
0 381-2500 C	Cold storage room finishes, 2 coat portland cement plaster, 13 mm thick with salvanized reinforcing mesh	SOM	1.00	5 Labor Foreman 5 Lather 0 Mason 0 Helper	4.000	5.000	4.500	2.000

Melon	13 : SPECIAL CONSTRUCTION	STERN	est all	CREW	D. O.	5 5 3 3 3 3 3 7	D. O.	AVRG.
CODE	ITEM DESCRIPTION	UNIT	1	STRUCTURE	MIN.	D. O. MAX.	AVRG.	E. H.
0 381-2700 C	old storage room finishes, 5 mm thick latex cement		1	125 Labor Foreman .000 Plasterer .000 Helper .000 Tools Set	6.000	7.000	6.500	1.333
0 381-2900 0	fold storage room finishes, glass cloth reinforced ceilings		T	140	45.000	52.000	48.500	0.178
	cold storage room finishes, fiber glass panels, 3 mm thick		,	125 Labor Foreman ,000 Carpenter ,000 Histoer ,000 Tools Set	12.000	14.000	13.000	0.667
0.001.0000	old storage room finishes, polystyrene, plastic finish ceiling 100 mm thick		1	"	24.000	28.000	26.000	0.333
an 381-4900 (cold storage room, partitions, galvanized sandwich panels, 100 mm thick, aluminum or berglass	SQM		1.125 Labor Foreman 2.000 Cerpenter 1.000 Helper 1.000 Tools Set	24.000	28.000	26.000	0.333
	Cold storage room, pretab walk-in, 2.2 m high, aluminum, including door, floors,		1		4.000	5.000	4.500	2.000
30 381-5200	partitions & refrigeration, 1.8 m x 1.8 m outside dimensions nominal Cold storage room, prefab walk-in, 2.2 m high, aluminum, including door &		1		5.500	6.000	5.750	1,455
30 38 1-5500	loors, partitions & refrigeration, 3 m x 3 m outside dimensions nominal Cold storage room, prefab walk-in, 2.2 m high, aluminum, including	+	+		7.500	9.000	8.250	1.067
30 381-5700	toor floors partitions & refrigeration, 3.6 m x 4.2 m outside dimensions nominal	+	-		-		8.250	1.06
30 381-5800	Cold storage room, prefab walk-in, 2.2 m high, aluminum, including door floors, partitions & refrigeration, 3.6 m x 6 m outside dimensions nominal				7.500	28.5.2.2	7/2/03-36/07	0.26
	Cold storage room shelving plated on galvanized steel wire	+			30.000	35.000	32.500	0.26
30 381-7500	Cold storage room, for air curtain doors, see division 083-722							
30 520	SAUNAS							
30 521	SAUNA		_	- Characteristics - Experience of	1	-		
	Sauns prefabricated including heater & controls, 2.1 m H, 1.8 m x 1.2 m cedar on cedar	EA	n	0 125 Labor Foreman 2 000 Carpenters 1 000 Laborer 0 500 Electrician 1 00 Tools Set	2.000	2.000	2.000	4.00
	Sauna prefabricated including heater & controls, 2.1 m H, 1.8 m x 1.5 m				1.800	2,000	1.900	4.44
	cedar on paneling Sauna prefabricated including heater & controls, 2.1 m H, 1.8 m x 2.75 m cedar on				1.50	2.000	1.750	5.33
	paneling Sauna prefabricated including heater & controls, 2.1 m H, 2.44 m x 3.6 m				1.00	1.000	1.000	8.00
KOSSON, I - HORSON	gedar on cedar Sauna prefabricated including heater & controls, 2.1 m H, 2.44 m x 3 m	T			1.20	1.000	1,100	6.66
130 521-1400	cedar on paneling Sauna prefabricated including heater & controls, 2.1 m H, 3 m x 3.6 m	+			1.00	0 1.000	1.000	8.00
30 521-1600 130 521-1700	cedar on paneling Sauna, door only, cedar, 610 mm x 1800 mm with tempered insulated glass window			0.125 Labor Foreman 2.000 Carpenters 1.000 Helper 1.000 Yools Set	2.50	0 3.000	2.750	3.20
130 521-3000	Sauna, heaters only, floor standing to 28 CUM, room size 16 kW with controls			0.125 Labor Foreman 1.006 Electrician 1.000 Helper 1.000 Tools Set	2.50	0 3.000	2.750	3,20
130 540	STEAM BATHS							
130 541	STEAM BATH	-55						
	Steam bath heater,including timer & head, single, to 3.9 CUM	E	A	0.125 Labor Foreman 1.000 Plumber 1.000 Helper 1.000 Tools Set	0.85	1.000	0.925	9.4
130 541-0500	Steam bath heater,including timer & head, single, to 8.4 CUM				0.75	1.000	0.875	10.6
	Steam bath heater,commercial,with blow-down assembly, to 22 CUM				0.60	00 1.000	-	5-50-06
	Steam bath heater,commercial,with blow-down assembly, to 22 CUM			.	0.60	1.000	0.800	13.3
130 810	ACOUSTICAL ENCLOSURES							
130 811	ACOUSTICAL	7.555						
130 811-0020	Acoustical enclosure, 100 mm thick wall and celling panels 51 kg/SQM, up to 3.6 m span	sc	м	0.125 Labor Foreman 3.000 Carpenters 1.000 Common laborer 2.000 Tools Set	4.00	5.00	4.50	4.0
130 811-0400	Acoustical reverb-chamber, 100 mm thick, parallel walls, complete				3.7	50 4.00		1
	Acoustical reverb-chamber, 100 mm thick, skewed walls, parallel roof, complete				2.8	3.00	2.92	5.6
130 811-090	Acoustical, sound-absorbing panels, painted metal, 762 mm x 2438 mm,				20.0	00 23.00	0 21.50	0.8
130 811-110	Acoustical, sound-absorbing panels, painted metal, 762 mm x 2438 mm,				22.0	00 25.00	0 23.50	0.7
130 811-310	Acoustical audio masking system, including speakers, amplification and signal		100					
	qenerator Acoustical, sound-absorbing panels, perforated metal, over 46 SQM, music rooms			.	20 0	07 23.00	0 21.67	0
130 811-320	Acquistical audio masking system, including speakers, amplification and signal			0.125 Labor Foreman 2.000 Electricians 1.000 Helper 1.000 Tools Set	160.0	00 184.00	172.00	0.0

CSI	13: SPECIAL CONSTRUCTION	A STATE OF THE STA		CREW				STORY OF THE REAL PROPERTY.
CODE	ITEM DESCRIPTION	UN	IIT	STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
130 811-3200	Acoustical audio masking system, including speakers, amplification and signal generator, ceiling mounted more than 500 m2				200.000	230.000	215.000	0.04
130 811-3400	Acoustical audio masking system, including speakers, amplification and signal generator, plenum mounted, more than 500 m2				300,000	345.000	322.500	0.0
130 910	RADIATION PROTECTION							
130 911	SHIELDING LEAD							
130 911-0100	Shielding lead, laminated lead in wood doors, 2 mm thick, no hardware			1 Skilled Labor 1 Helper				
130 911-0200	Sheilding, lining door frame, 2 mm thick lead, prepared to receive hardware	EA	4	0.125 Skilled Foreman 1.000 Lather 1.000 Heiper 1.000 Tools Set	1.750	2.000	1.875	4.57
130 911-0300	Shielding, sheets, 2 mm thick lead	SQ	м	0.125 Skilled Foreman 2.000 Lather 1.000 Helper 2.000 Tools Set	9.000	10.000	9.500	1.77
130 911-0400	Shielding, sheets, 3 mm thick lead	sq	м	0.125 Skilled Foreman 2.000 Lather 1.000 Helper 2.000 Tools Set	8.000	9.000	8.500	2.00
130 911-0600	Shielding glass, 6 mm thick lead, 300 mm x 400 mm	EA	V		9.000	10.000	9.500	1.778
130 911-0700	Shielding glass, 6 mm thick lead, 610 mm x 910 mm				6.000	7.000	6.500	2.66
130 911-0800	Shielding glass, 6 mm thick lead, 910 mm x 1525 mm		T		1.000	1.000	1.000	16.000
	Shielding window frame, 2 mm thick lead, 910 mm x 1525 mm	1			1.000	1.000	1.000	16.000
	Shielding gypsum board, 16 mm thick with 2 mm lead	SQ	м		11.000	13.000	12.000	1.455
Tepestore, investore	Shielding gypsum board, 16 mm thick with 3 mm lead	1			9.500	11.000	10.250	1.684
	Shielding gypsum board, 16 mm thick with 0.8 mm lead	+	-		15.000	17.000	Carrenessia)=Vi613
130 911-1210	Shielding protection, X-ray room, average radiography or fluoroscopy	$\dagger \dagger$			7.000	8.000	7.500	2.286
130 911-1900	room of 2.1 wall height & upto 28 SQM size, 2 mm lead, minimum Shielding, protection, deep therapy, X-ray room 250 KV capacity, of 2.1 wall height & upto 28 SQM size, 6 mm lead, minimum	\Box			7.000	8.000	7.500	2.286
130 911-2010	Shielding, X-ray viewing panels, clear lead plastic 7 mm thick with 0.3 mm lead thick			0.125 Skilled Foreman 1.000 Skilled Worker 1.000 Common labore:	9.000	10.000	9.500	0.889
130 911-2040	Shielding, X-ray viewing panels, clear lead plastic 22 mm thick with 1.0 mm lead thick	H		1.000 Tools Set	3.000	3.000	3.000	2.667
130 911-2050	Shielding, X-ray viewing panels, clear lead plastic 35 mm thick with 1.0 mm lead thick	$\dagger \dagger$			2.000	2.000	2.000	4.000
	Shielding, X-ray viewing panels, clear lead plastic 46 mm thick with 2.0 mm lead thick		-		1.500	2.000	1.750	5.333
	Shielding, X-ray barriers, mobile, mounted within framework with casters on bottom, clear lead plastic window panels on upper portion, opaque on lower	\forall			1.300	2.000	1.750	5.333
	including framework Shielded, X-ray modular steel barriers with window ,framed, floor or wall or ceiling	+	+					
000111020	mounted, supported, 0.9 m wide, 2.1 m high, 1 section, 0.5 mm leaded.	EA			4.000	5.000	4.500	2.000
	Shielded, X-ray modular steel barriers with window ,framed, floor or wall or ceiling mounted, supported, 0.9 m wide, 2.1 m high, 1 section, 1.5 mm leaded.		1		3.000	3.000	3.000	2.667
30 911-4070	Shielded, X-ray modular steel barriers with window ,framed, floor or wall or ceiling		1		3.000	3.000	3.000	2.007
	mounted, supported, 1.8 m wide, 2.1 m high, 2 section, 0.5 mm leaded. Shielded, X-ray modular steel barriers with window framed, floor or wall or ceiling	\vdash	+	 	3.000	3.000	3.000	2.667
00 017 7000	mounted, supported, 1.8 m wide, 2.1 m high, 2 section, 1.0 mm leaded.				2.600	3.000	2.800	3.077
	Shielded, X-ray modular steel barriers with window ,framed, floor or wall or celling mounted, supported, 1.8 m wide, 2.1 m high, 2 section, 1.5 mm leaded.				2.350	3.000	2.675	3.404
30 911-5040	Shielded, X-ray modular steel barriers with window ,framed, floor or wall or ceiling		1		2.000	2.000	2.000	4.000
	mounted, supported, 2.7 m wide, 2.1 m high, 3 section, 1.0 mm leaded. Shielded, X-ray modular steel barriers with window, framed, floor or wall or ceiling	\vdash	+				20000000	4.000
00 011 0000	mounted, supported, 2.7 m wide, 2.1 m high, 3 section, 1.5 mm leaded.	1			1.750	2.000	1.875	4.571
30 912	SHIELDING, RADIO FREQUENCY							
30 912-0020	Radio frequency shielding, prefabricated or screen-type copper or steel, average	EA	1	2.125 Skilled Foreman 2.000 Carpenters 1.000 Helper 2.000 Tools Sel	10.000	12.000	11.000	1,600
31	PRE-ENG. STRUCTURES, POOLS & ICE RINKS			Section 1		1 11 12 13		
31 200	PRE-ENG. STRUCTURES		4					14.
31 202	DOMES			CALL HA III				
01 202 0000	Domes revolving aluminum, electric drive, for astronomy observation, stock units 3048 mm diameter, 363 kg, dome & shell base	N= IF	2	? Carpenters				
31 202-1200	Domes revolving aluminum, electric drive, for astronomy observation, stock units 7315 mm diameter, 2041 kg, dome & shell base			* -				
	Bulk storage dome, shell only, dual radius hemisphere, arch, steel framing, corrugated steel covering 40 m diameter	SQM Floor	1 2	Struc. steel foreman Struc. steel workers Equip. Oper (crane) Common Laborers Crane, 82 metric ton	40.000	46.000	43.000	0.200

CSI	ITEM DESCRIPTION	UNI	Т	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
31 202-2000	Bulk storage dome, shell, steel framing, plywood & asphalt shingle covering 15 m diameter			1 Skilled Foreman 2 Struct: steel workers 2 Carpenters 1 Equip Oper (crane) 2 Common Laborers 2 Power Tools 1 Hyd. crane, 11 metric ton	145.000	167.000	156.000	0.16
31 202-2200	Bulk storage dome covering, plywood, asphalt shingles, 22 m diameter				125.000	144.000	134.500	0.19
31 203-2300	Geodesic dome, shell only aluminum framed, aluminum closure panels 98 m diameter							0.00
31 203-2400	Geodesic dome, shell only aluminum framed, aluminum closure panels 126 m							0.00
31 203-2800	diameter Geodesic dome, shell only aluminum framed, fiberglass sandwich panel closure		-		+			0.00
	2 m diameter Goodsey dame, chall only aluminum tramed, fiberalises conduits paged placing	+	-					11 1380
31 203-2900	9 m diameter							0.00
31 202-4000	Dome shell, aluminium framing, plexiglass closure panels, 12 m diameter				30.000	35.000	32.500	0.80
31 202-4000	Dome shell, aluminium traming, aluminium closure panels, 12 m diameter			<u> </u>	20.000	23.000	21.500	1.20
31 202-4000	Dome shell, aluminium framing,fiberglass sandwich closure panels, 2 m diameter		000000000000000000000000000000000000000	0.125 Skilled Forman 2.000 Carpenters 1.000 Common laborer 2.000 Power tools	12.000	14.000	13.000	1,33
31 202-4000	Dome shell, aluminium framing,fiberglass sandwich closure panels, 9 m diameter				30,000	35.000	32.500	0.53
31 205-0800	Silos steel, factory fab., epoxy lined, average	+		2772				
31 207-0460	Rigid steel or alum, frame, vinyl coated polyester fabric shell, 37 m clear span, not incl, foundations or floors	SQM Floor						
31 207-0470	Rigid steel or alum, frame, vinyl coated polyester fabric shell, 61 m clear span, not linel, foundations or floors	SQM						
31 207-0500	Roll-up door, 3658 mm x 4267 mm	SQM	•	1 Carpenter				
31 210	PRE-ENGINEERED BUILDINGS	Floor		1 Carpenter Helper				
31 211	HANGARS		_					
31 211-0110	bi-folding doors, not including floors or foundations, average	SOM SURFAI AREA	CE	Struc, steel foreman Struc, steel workers Equip, Oper (grane) Common Laborers Crane, 82 metric ton	90,000	104.000	97.000	0.08
31 211-2000	Hangars prefabricated steel, circular type, steel frame, plastic skin, electric door including foundations, 24 m diameter, average	22		250	45.000	52.000	48.500	0.17
31 212	PRE-ENGINEERED STEEL BUILDINGS	in the same						
31 212-0025	Pre-engineered steel building shell only, 26 ga. colored roofing & siding, average	SQM		Struc. steel foreman Struc. steel workers Eguip. Oper (crane) Common Laborers Crane, 82 metric ton	115.000	132.000	123.500	0.07
31 212-0100	Pre-engineered steel building rigid, clear span frame, 26 ga. colored roofing and siding 10 m wide, 4.25 m eave height, 2400 floor area.				115.000	132.000	123.500	0.07
31 212-0500	Pre-engineered steel building rigid, clear span frame, 26 ga. colored roofing				70.000	81,000	75.500	0.11
31 212-0700	Pro employees of steel building rold, clear soon frame, 26 ca. colored roofing	+			115.000	132.000	123.500	0.07
	and siding 15 m wide, 4.25 m eave height, 2400 m2 floor area	-	-		523 552		(reterment)	
31 212-1100	and siding 24 m wide, 7.2 m eave height, 2400 m2 area				70.000	81.000	75.500	0.11
31 212-1400	Pre-engineered steel building rigid, clear span tapered beam frame, 26 ga. colored roofing and siding 10 m wide, 4.25 m eave height, 2400 m2 floor area				115.000	132.000	123.500	0.07
31 212-2000	Pre-engineered steel building, rigid clear span tapered beam frame, 26 ga. colored roofing and siding 12 m wide, 6 m eave height, 2400 m2 floor area.				70.000	81.000	75.500	0.11
31 212-2100	Pre-engineered steel building rigid, clear span tapered beam frame, 26 ga. colored				70.000	81.000	75.500	0.11
31 212-2500	Pre-engineered building, 3 post frame per width, 12 m span, 26 ga. roofing and siding		-		100.000	115.000	107.500	0.08
	24 m. wide, 4.2 m eave height, 2400 m2 floor area		-		-			
31 212-2800	30 m, wide, 6 m eave height, 2400 m2 floor area		_		65.000	75.000	70.000	0.12
31 212-2900	save height							
31 212-3400	Pre-engineered building, 3 post frame per width,18 m span, 26 ga. roofing and siding 36 m. wide, 4.25 m eave height, 2400 m2 floor area				100 000	115.000	107.500	0.08
31 212-3600	Pre-engineered building, 3 post frame per width,18 m span, 26 ga. roofing and siding				65 000	75.000	70.000	0.12
31 212-3700	36 m. wide, 6 m eave height, 2400 m2 floor area Pre-engineered building, single post frame, 26 ga. roofing and siding 36 m. wide, 7 m							
	Pre-engineered building, double post frame, 26 ga. roofing and siding 45 m. wide, 4.25	\vdash	+					
31 212-3800	m eave height	-	-		65.000	75.00	in from	
re- a - cea garana	Pre-engineered building, 4 post frame per width, 15 m span, 26 ga, roofing and siding	1 1			Post (1010)	75.00U	10.000	Uic
31 212-3800	45 m. wide, 6 m eave height, 2400 m2 floor area				00.000			
re- a - cea garana	45 m. wide, 6 m eave height, 2400 m2 floor area						27.000	0.32

CSI	ITEM DESCRIPTION	UNIT		CREW	D. O.	D. O. MAX.	D. O.	AVRG
CODE	The besone not	UNI	ST	RUCTURE	MIN.	D. O. MAX.	AVRG.	E. H.
131 212-5700	Pre-engineered doors, hollow metal self-framing, incl. butts, lockset and trim, single leaf, 910 mm x 2100 mm, economy	OPENIN	0 125 Skiller 2.000 Struct 1.000 Comm 1.000 Tools	ural steel workers non Laborer	5.000	6.000	5.500	1
131 212-5950	Pre-engineered doors, hollow metal self-framing, incl. butts, lockset and trim, single leaf, 1.8 m x 2.4 m, economy				2.500	3.000	2 750	3
31 212-6050	Pre-engineered, framing only, for openings, 910 mm x 2100 mm		1					100
and the second second second second	Pre-engineered, framing only, for openings, 3000 mm x 3000 mm			_				
	Pre-engineered, flashings, 26 ga., corner or eave	1		1				
131 212-6550	Gutter, eave type, 26 ga.	LM			40.000	46.000	43.000	0.
131 212-8200	Skylight, fiberglass panels upto 3 SOM	SQM	1 Welder Fo 1 Welder 1 Laborer 1 Equip Ope 1 Gas weldir	er. (light)	20.000	23.000	21.500	0.
131 212-8250	Skylight, fiberglass panels over 3 SQM	SQM			25.000	29.000	27.000	0.
31 212-8400	Framed roof vents, circular with damper, birdscreen and operator hardware, painted 26 ga., 300 mm diameter	EA	0.125 Skilled 1.000 Structu 1.000 Helper 1.000 Tools	ral Steel Worker	3.000	3.000	3.000	2.6
31 212-8450	Framed roof vents, circular with damper, birdscreen and operator hardware, painted 26 ga., 500 mm diameter				2.000	2.000	2.000	4.0
131 212-8500	Framed roof vents, circular with damper, birdscreen and operator hardware, painted 24 ga., 600 mm diameter				2.000	2.000	2.000	4.0
31 230	GREENHOUSES	•		*			(7),700(0)	_0.0
31 231	GREENHOUSE							
31 231-0300	Greenhouse, free standing, size 2.6 m long, 2.2 m wide, 2.44m high	SQM	2 Carpenters		4.000	5.000	4.500	0.0
	Greenhouse shelf only, 5 m long, 3.2 m wide	Floor	1 Helper		4.000	5.000	4.500	0.0
	Greenhouse, free standing, size 2.6 m long, 3.2 m wide, 2.44m high			+ +	6.000	7.000	6.500	0.0
	Greenhouse, free standing, size 2.6 m long, 5.1 m wide, 2.44m high	1			12.000	14.000	13.000	0.0
ESWARNIA	GARDEN HOUSE		//	*	12.500	14.000	10.000	0.0
	Garden house, prefabricated without floor or foundation 2.5 m long,	SQM	2 Carpenters		12.000	14.000	10,000	
	5 m wide KIOSKS	Floor	2 Power tools		12.000	14.000	13.000	0.0
27.43.0 m (d) (1)	Prefabricated klosk, round, 1.5 m diameter,2.4 m high, 6 mm fiberglass wall.	T	2 Skilled Work	ers		-		9500
and the second	Prefabricated klosk, round, 1.5 m diameter,2.4 m high, 5 mm insulated,	EA	1 Helper		4.000	5.000	4.500	0.0
	double wall fiberglass				4.000	5.000	4.500	0.0
31 245-0100	Prefabricated kiosk, rectangular, 1.5 m x 2.7 m x 2.3 m, 25 mm insulated double wall,fiberglass			ļ	4.000	5.000	4.500	0.0
	PORTABLE BOOTHS	beveni						
31 247-0300	Prefabricated, booth, aluminum with doors, windows, ext. roof lights wiring & insulation, 2.8 SQM, 2.4 m high, average	EA	2 Skilled Work 1 Helper	ers	4.000	5.000	4.500	0.0
	Prefabricated ticket booth, galv. steel, not incl. foundations, 1,2 m x 1.8 m average				4.000	5.000	4.500	0.0
31 250	GRANDSTANDS / BLEACHERS	-						
31 251	GRANDSTANDS						-	
8	Grandstand, no foundation, steel understructure with precast concrete closed deck average	SEAT	1 Struc. steel I 4 Struc. steel I 1 Equip. Oper 1 Equip. Oper 1 Crane, 82 m	vorkers (crane) oller	8.000	9.000	8.500	1.00
	Grandstand, steel deck at framing, average SWIMMING POOLS				-			
AND STATE OF	SWIMMING POOL ENCLOSURE					-		_
SOUR LANGUAGE	Swimming pool enclosure, translucent, free standing, not including foundations,		2 Carpenters					_
h	eat or light, average	SQM	1 Helper		8.000	9.000	8.500	1.00
	SWIMMING POOL EQUIPMENT							<u>.</u>
and the second of the	Swimming pool, diving stand, stainless steel, 3 meter		2 Carpenters 1 Helper		0.250	0.500	0.375	32.00
	Swimming pool, diving board 5 m long				2.000	2.000	2.000	4.00
1 523-0900 S	wimming pool filter system, sand or diatomite type, including pump 85 GPM & hlorination system, pool size 75 SQM	1			1.000	1.000	1.000	0.00
523-1100 S	wimming pool, gutter system, stainless steel, with grating, including supply and rainage system	LM	Weider Foren Weider Equip Oper, Gas welding r	(light)	4.000	5.000	4.500	2.00
523-1200 S	wimming pool, ladders, heavy duty, stainless steel, 4 tread	EA	Carpenters Helper		4.000	5.000	4.500	0.00
523-1800 S	wimming pool, lifeguard chair, stainless steel, fixed				2.000	2.000	2.000	0.00
523-2100 S	wimming pool, lights, underwater, 12V, with transformer		Electrician		5.000	6,000	5.500	0.000
	wimming pool heaters, See division 155150	-	Helper		Acres 1	1000 D-1	2022	-34.00

	13 : SPECIAL CONSTRUCTION ITEM DESCRIPTION	JNIT		CREW STRUCTURE	D. O. MIN.	D. O. M	AV		VRG. E. H.
CSI	MANUAL PROPERTY OF THE PROPERT	EA		arpenters alper	1,500	2	.000	1.750	0.000
523-3300	Swimming pool slides, fiberglass, aluminum handrails & ladder, 1.8 m straight	-	1	160	0.850	1	,000	0.925	0.000
523-3400	Swimming pool slides, fiberglass, aluminum handrails & ladder, 3.2 m curved unit		-						
1 525	SWIMMING POOLS		1.0	oreman					
	Swimming pool gunite bottom and sides, white plaster finish	SQM Surf.	31	Dement Finisher Grout pump with hose & nozzle	10.000	12	2.000	11.000	0.800
525-0810	Swimming pool, concrete bottom and sides tile finished	350	4 1 5	Foreman Tilers Laborers Coment Firisher Rodman (reinf.) Equip. Oper. (med.) F.E. Ldr., T.M., 1.91 CUM	6.000		7.000	6.500	0.667
	TANKS, TANK COVERS, FILTRATION EQUIPMENT			A STATE OF THE PARTY OF THE PAR					
32	TANKS, TANKS					+			
32 050	GROUND STORAGE TANKS					-	-	- 450	0.000
32 051	TANKS Steel, storage tank, above ground, including supports, coating fittings not including mat,	EA		Steamfitter Steamfitter Apprentice	3.50	0	4.000	3.750	0.000
32 051-304	Steel, storage tank, above ground, including supports, coating, fittings, not including Steel, storage tank, above ground, including supports, coating, fittings, not including			Steamlitter Foreman (in) Steamlitters Steam Apprentice C25 Crane Operator	5.00	00	6.000	5.500	0.400
32 051-308	mat, pumps or piping. 4 COM capacity			0.25 Crane 11 ton	2.4	00	3.000	2.700	0.833
32 051-314	Steel, storage tank, above ground, including supports, coating, fittings, not including						1,000	0.950	2.222
	mat, pumps or piping, 20 COM capacity mat, pumps or piping, 20 COM capacity capacity, storage tank, above ground, including supports, coating, fittings, not including				0.9		31(3,00)	3.000	0.667
32 051-31	mat, pumps or piping, 100 COM capacity mat, pumps or piping, 100 COM capacity and plants above ground, including supports, coating, fittings not including				3.0	00	3.000		WW.015.00
32 051-33	mat, pumps or piping, double wan, a coverage supports, coating, fittings, not including				1.3	500	2.000	1.750	1.333
132 051-33	mat, pumps or piping, double wair, 30 Com separation including supports, coating fittings no	ıt			0.	300	1.000	0.900	2.50
132 051-34	including mat, pumps or piping, double war.								
132 150	UNDERGROUND STORAGE TANKS					_			
132 151	TANKS Underground storage tank, fiberglass, single wall not including excavation, hold down		EA	Steamfitter Foreman (in) Steamfitters Steam Apprentice 25 Crane Operator	2	.000	2.000	2.000	1.00
132 151-0	straps and manway, 8 COM capacity			0.25 Crane 11 ton	(,500	1.000	0.750	4.0
132 151-0	Underground storage tank, fiberglass, single wall, not including excavation, hold down straps and manway, 40 CUM capacity Underground storage tank, fiberglass, single wall, not including excavation, hold down		+		-1	0.300	0.500	0.400	6.6
132 151-	Underground storage tank, fiberglass, single wall, for motions, straps and manway, 80 CUM capacity straps and manway, 80 CUM capacity Underground storage tank, steel, not including excavation, hold down straps, pad, pum	ps	+			0.500	1.000	0.750	
132 151-	Underground storage tank, steel, not including excavation, hold down straps, pad, pure Underground storage tank, steel, not including excavation, hold down straps, pad, pure Underground storage tank, steel, not including excavation, hold down straps, pad, pure 100 per page 11 thickness	ps	1			0.500	1.000	0,75	
132 151	Underground storage tank, steel, not including excavation, hold down straps, pad, puri 8 piping, 60 CUM capacity, 8 mm wall thickness. Underground storage tank, steel, not including excavation, hold down straps, pad, puri	ps	+			0.300	0.500	0.40	
132 151	& piping, 100 CUM capacity, 10 mm was shorteness.	ps	1			0.200	0.50	0 0.35	10.1
132 151	8 piping, 150 CUM capacity, 10 mm wall thickness. UTILITY CONTROL SYSTEMS		B	We/4.63		Z 16	9		
133	THE CONTROL SYSTEMS					-			
133 30	PADIO TOWERS See Div 169-120								

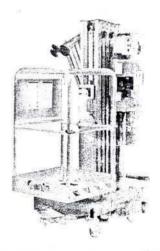
Division 14 Conveying Systems







The maintenance and construction personnel lift with more features and options than ever.





شركة دارالبناء الحديثة الحدودة

المركز الرئيسي / هاتف ١٤٠٤١٠١١ ٩٦٦١ / ٩٦٦٠ / فاكس ٤٠٢٤٨٩١ ١ ٩٦٦٠ / الملكة العربية السعودية - الرياض

LFUJI QUALITY MOTION TO THE FUTURE



Gulf Elevator & Escalator Company Ltd.

FUJI Elevator & Escalator

Head Office P.O. Box 13099 Jeddah 21493 Tel.: 6080588 (8 lines) Fax: 6080897 Riyadh Branch: P.O.Box 63383 Riyadh 11516 Tel.: 4627059 (6 lines) Fax: 4626143 Al-Khobar Branch: Tel.: 03/ 8822700 Fax: 03/ 8875306 Al-Madinah Branch: Tel.: 02/5593813 - 02/5273687 - Fax: 02/5273689

ة النائد المصاعد والسيام المحودة

. ب ۱۴۰۹۵ جدة ۲۱۲ ت : ۲۰۸۰،۸۸ (۸ خطوط) فاکس: ۲۰۸۰۸۹۷

۰۲ / ۸۸۲۲۷۰ قاکس: ۲ / ۸۸۷۵۳۰۱

هٔ المتورة: ت: ۱۲۰۰۱۹۰ – ۲۲۰۰۱۲۸ فاکس: ۲۲۲۲۲۲۸ الکرمهٔ : ت: ۲۲/۵۷۲۲۸۲ /۲۰ فاکس: ۲۲/۵۲۲۲۸۹ (۲۰

Division 14.. Conveying Systems..

Estimating Tips: General

Many products in this division will require some type of support or blocking for installation not included with the item itself. Examples are supports for conveyors, attachment points for lifts and footings for hoists or cranes.

141 Dumb-waiters. 142 Elevators:

Dumb-waiters Elevators are estimated and purchased from manufacturers with a base unit price for standard features and added to this base unit price will be whatever options the owner or specifications require. Increased load capacity, additional vertical travel, additional stops, higher speed, and cab finish options are items to be considered. When developing an estimate for elevators, remember that some items needed by the installers may have to be included as part of the general contract. Examples are:

- shaftway.
- rail support brackets.
- machine room electrical supply.
- sill angles.
- electrical connections.
- pits.
- roof penthouse.
- pit ladders.

143 Escalators:

Escalators are specialty items installed by

specialty contractors. There are numerous options associated with these items. For specific options contact a manufacturer or contractor.

144 Lifts. 146 Hoists & Cranes:

These products may require trained installers.

The general contractor might not have any choice as to who will perform the installation or when it will be performed. Long lead items are often required for these products, making early decisions in scheduling is necessary.

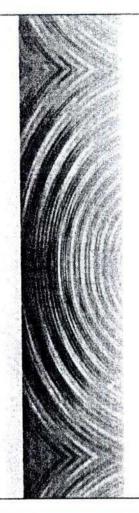
CSI	N 14: CONVEYING SYSTEMS		CREW			D. O.	AVRG.
CODE	ITEM DESCRIPTION	UNIT	STRUCTURE	D. O. MIN.	D. O. MAX.	AVRG.	E. H.
141	DUMBWAITERS	02, 10, 12, 5, 10	versene er year Arabi Arabi.	entamentary			
141 100	MANUAL DUMBWAITERS						
141 101	DUMBWAITERS:		0.50 Elevator Forman		, ,		
141 101-0100	Manual dumbwaiter, 2 stops, average	EA	4.00 Elevator Constructors 1.00 Steel Structure Worker 2.00 Elevator apprentice 3.00 Hand Tools 1.00 Chain Winch	2.000	2.000	2.000	16.000
141 101-0300	Manual dumbwaiter, for each stop,add	STOP	•	2.000	2.000	2.000	16.000
141 200	ELECTRIC DUMBWAITERS						
141 201	DUMBWAITERS:						
141 201-0010	Electric dumbwaiters, 2 stops, average	EA	0.50 Elevator Forman 4.00 Elevator Constructors 1.00 Steel Structure Worker 2.00 Elevator apprentice 3.00 Hand Tools 1.00 Chain Winch	0.350	0.500	0.425	91.429
141 201-0600	Electric dumbwaiters, for each additional stop,add	STOP	+	1.500	2.000	1.750	21.333
142	ELEVATORS		THE RESERVE		Telephone.	70055850	CONTRACTOR OF THE PERSON OF TH
142 010	ELEVATORS		1011101101				
142 011	ELEVATORS						
	Elevator freight, 2 story.hydraulic, 1360 kg capacity, 0.5m/second speed,average	EA	0.50 Elevator Forman 4.00 Elevator Constructors 1.00 Steel Structure Worker 2.00 Elevator apprentice 3.00 Hand Tools 1.00 Chain Winch	0.108	0.500	0.304	296.296
142 011-0700	Elevator freight, 2 story.hydraulic, 1800 kg capacity, 0.88 m/second speed,average			0.101	0.500	0.301	316.832
	Elevator freight, 3 story,hydraulic, 1800 kg capacity. 0.88 m/second speed,average			0.087	0.100	0.094	367.816
142 011-1000	Elevator freight, 6 story, hydraulic, 1360 kg capacity, 0.76 m/second speed, average			0.082	0.100	0.091	390.244
142 011-1100	Elevator freight, 6 story,hydraulic, 1600 kg capacity.			0.082	0.100	0.091	390.244
42 011-1120	0.76 m/second speed,average Elevator freight, 6 story,hydraulic, 2000 kg capacity.			0.076	0.100	0.088	421.053
42 011-1200	0.76 m/second speed, average Elevator freight, 6 story, hydraulic, 2700 kg capacity,			0.072	0.100	0.086	3 PHONES TABLES
42 011-1700	0.88 m/second speed,average Elevator freight, 6 story,hydraulic, 3000 kg capacity,			0.072	0.100		444.444
42 011,1820	0.88 m/second speed,average Elevator freight, 6 story,hydraulic, 3600 kg capacity.			3890173		0.086	444.444
1-72	0.88 m/second speed, average Elevator freight, 6 story geared electric 1800 kg capacity.			0.059	0.100	0.080	542.373
- 10 - 10 10 10 10 10 10 10 10 10 10 10 10 10	2.0 m/second speed,average Elevator freight, 6 story geared electric 3000 kg capacity,			0.090	0.100	0.095	355.556
42 011 2000	2 m/second speed,average			0.078	0.100	0.089	410.256
42 011 2700	Elevator freight, 6 story geared electric 4500 kg capacity, 1.5 m/second speed, average			0.066	0.100	0.083	484.848
12 011 2000	Elevator freight, 6 story geared electric 4500 kg capacity, 2 m/second speed,average			0.064	0.100	0.082	500.000
	Elevator freight, 10 story geared electric 1800 kg capacity, 1.5 m/second speed,average			0.078	0.100	0.089	410.256
	Elevator freight, 10 story geared electric 2700 kg capacity, 1.5 m/second speed,average			0.069	0.100	0.085	463.768
42 011-3700	Elevator freight, 10 story geared electric 3000 kg capacity, 2 m/second speed, average			0.068	0.100	0.084	470.588
42 011-3800 E	Elevator freight, 10 story geared electric 3600 kg capacity, 1.5 m/second speed, average			0.059	0.100	0.080	542,373
42 011-3900 E	Elevator freight, 10 story geared electric 4500 kg capacity, 1.2 m/second speed.average			0.057	0.100	0.079	561.404
42 01 1-4500 E	Elevator freight, 12 story geared electric 4500 kg capacity,			0.051	0.100	0.076	627.451
42 011-4620 E	.5 m/second speed, average Elevator freight, 14 story geared electric 4500 kg capacity,			0.049	10.1900		
12 011-5200 E	20 m/second speed,average Elevator freight, 15 story geared electric 2200 kg capacity.			10000000	0.100	0.075	653.061
12 011-5800 E	.5 m/second speed, average Elevator freight, 16 story geared electric 2700 kg capacity,			0.059	0.100	0.080	542.373
2	.0 m/second speed,average Devator freight, 16 story geared electric 3600 kg capacity,			0.060	0.100	0.080	533.333
2	.0 m/second speed.average Sevator freight, 20 story geared electric 3000 kg capacity,			0.052	0.100	0.076	615.385
2 011-0400 2	m/second speed, average Devator freight, 22 story geared electric 3600 kg capacity,			0.047	0.100	0.074	680.851
2	m/second speed,average			0.040	0.100	0.070	800.000
	Elevator freight, 24 story geared electric 4500 kg capacity, m/second speed,average			0.037	0.100	0.069	864.865

e wed set as an	N 14: CONVEYING SYSTEMS		Maria Maria	CREW		COMP ASSESSMENT ASS	D. O.	AVRG.
CODE	ITEM DESCRIPTION	UNIT	3	TRUCTURE	D. O. MIN.	D. O. MAX.	AVRG.	E. H.
42 011-7000	Elevator passenger, 3 story.hydraulic, 680 kg capacity, 0.63 m/second speed	EA	4.00 Ek 1.00 St 2.00 Ek 3.00 Ha	water Forman water Constructors seel Structure Worker water apprentice and Tools ain Winch	0.090	0.100	0.095	355.55
42 011-7020	Elevator passenger, 3 story,hydraulic, 900 kg capacity, 0.88 m/second speed				0.085	0.100	0.093	376.47
42 011-7040	Elevator passenger, 3 story,hydraulic, 1100 kg capacity, 0.76 m/second speed				0.090	0.100	0.095	355.55
42 011-7060	Elevator passenger, 4 story,hydraulic, 1100 kg capacity. 0.88 m/second speed				0.081	0.100	0.091	395.06
42 011-7160	Elevator passenger, 5 story,hydraulic, 680 kg capacity, 0.5 m/second speed				0.081	0.100	0.091	395.06
42 011-7180	Elevator passenger,6 story,hydraulic, 900 kg capacity, 0.635 m/second speed				0.077	0.100	0.089	415.58
42 011-7200	Elevator passenger, 5 story, hydraulic, 1100 kg capacity, 0.76 m/second speed				0.081	0.100	0.091	395.0€
42 011-7260	Elevator passenger, 5 story,hydraulic, 1100 kg capacity, 0.88 m/second speed				0.077	0.100	0.089	415.58
42 011-7300	Elevator passenger, 6 story,hydraulic, 1100 kg capacity. 0.5 m/second speed				0.077	0.100	0.089	415.58
42 011-7320	Elevator passenger, 6 story,hydraulic, 1300 kg capacity, 0.88 m/second speed				0.074	0.100	0.087	432.43
42 011-7340	Elevator passenger, 7 story, hydraulic, 1800 kg capacity, 0.76 m/second speed				0.074	0.100	0.087	432.43
42 011-7400	Elevator passenger, 8 story, hydraulic, 2000 kg capacity, 0.88 m/second speed				0.068	0.100	0.084	470.58
42 011-7800	Elevator passenger, 10 story geared electric 970 kg capacity, 1.02 m/second speed,average				0.073	0.100	0.087	438.3
42 011-7900	Elevator passenger, 12 story geared electric 1100 kg capacity, 1.20 m/second speed,average				0.065	0.100	0.083	492,30
42 011-8000	Elevator passenger, 10 story geared electric 1360 kg capacity. 1.50 m/second speed,average				0.072	0.100	0.086	444.4
42 011-8060	Elevator passenger, 10 story geared electric 1800 kg capacity, 1.77 m/second speed,average				0.068	0.100	0.084	470.5
42 011-8100	Elevator passenger, 13 story geared electric 2000 kg capacity, 2.00 m second/speed,average				0.055	0.100	0.078	581.8
42 011-8120	Elevator passenger, 10 story geared electric 2200 kg capacity. 2.00 m second/speed,average				0.062	0.100	0.081	516.1
42 011-8340	Elevator passenger, 16 story geared electric 1800 kg capacity. 1.5 m/second speed,average				0.059	0.100	0.080	542.3
42 011-8380	Elevator passenger, 16 story geared electric 1800 kg capacity, 2 m/second speed, average				0.057	0.100	0.079	561.4
42 011-8400	Elevator passenger, 16 story geared electric 2200 kg capacity, 2 m/second speed, average				0.053	0.100	0.077	603.7
42 011-8440	Elevator passenger, 16 story geared electric 3200 kg capacity. 2 m/second speed,average				0.047	0.100	0.074	680.8
42 011-8600	Elevator passenger, 20 story geared electric 1800 kg capacity. 2 m/second speed.average				0.048	0.100	0.074	666.6
42 011-8700	Elevator passenger, 20 story geared electric 2200 kg capacity, 2 m/second speed,average				0.045	0.100	0.073	711.1
42 011-9000	2.50 m/second speed, average				0.052	0.100	0.076	615.3
42 011-9060	Elevator passenger, 16 story gearless electric 1800 kg capacity, 3.00 m/second speed, average				0.052	0.100	0.076	615.3
42 011-9120	Elevator passenger, 16 story gearless electric 2200 kg capacity, 3.50 m/second speed, average				0.048	0.100	0.074	666.6
42 011-9220	Elevator passenger, 16 story gearless electric 3200 kg capacity, 4.00 m/second speed, average				0.040	0.100	0.070	800.0
42 011-9500	Elevator passenger, 18 story gearless electric 1800 kg capacity, 3.00 m/second speed, average				0.049	0.100	0.075	653.0
42 011-9560	Elevator passenger, 20 story gearless electric 1800 kg capacity. 4.00 m/second speed, average				0.044	0.100	0.072	727.2
42 011-9600	Elevator passenger, 20 story gearless electric 2000 kg capacity, 3.50 m/second speed, average				0.041	0.100	0.071	780 4
42 011-9660	Elevator passenger, 20 story gearless electric 2000 kg capacity, 4.00 m/second speed average				0.041	0.100	0.071	780.4
42 011-9700	3.00 m/second speed, average				0.034	0.100	0.067	941.1
42 011-9740	Elevator passenger, 20 story gearless electric 2800 kg capacity, 3.50 m/second speed, average				0.039	0.100	0.070	820.5
42 011-9780	4.00 m/second speed average				0.034	C.100	0,067	941.1
42 011-9860	Elevator passenger, 20 story gearless electric 2800 kg capacity, 5.00 m/second speed.average	1	-		0.031	0.100	Ú.Úou	1032.2
43	MOVING STAIRS & WALKS							
43 100	ESCALATORS							

CSI	N 14: CONVEYING SYSTEMS	Della Con				THE PERSON NAMED IN		发上一个人
CODE	ITEM DESCRIPTION	UNI	Т	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
143 101-0010	Escalators single unit,up or down, 3.00 m rise, 813 mm wide, stainless steel balustrade	EA	4 7 00 03	0.50 Elevator Forman 4.00 Elevator Constructors 1.00 Steel Structure Worker 2.00 Elevator apprentice 3.00 Hand Tools 1.00 Chain Winch	0.067	0.100	0.084	358.20
143 101-0100	stainless steel balustrade	EA	1 2 3	D.50 Elevator Forman 4.00 Elevator Constructors 1.00 Steel Structure Worker 2.00 Elevator apprentice 8.00 Hand Tools 1.00 Chain Winch	0.092	0.100	0.096	260.87
143 101-0200	Escalators single unit,up or down, 6.00 m rise, 813 mm wide, stainless steel balustrade				0.075	0.100	0.088	320.00
143 101-0300	Escalators single unit,up or down,rise, 4.50 m rise, 813 mm wide, enameled steel balustrade				0.090	0.100	0.095	266.66
143 101-1000	Escalator, single unit,up or down, 3.00 rise, 1.20 m wide, enameled steel balustrade		1		0.089	0.100	0.095	269.66
143 101-1100	Escalator, single unit,up or down, 4.50 rise, 1.20 m wide,		+		0.078	0.100	0.089	307.692
143 101-1200	enameled steel balustrade Escalator, single unit,up or down, 6.00 rise, 1.20 m wide,		+		2000000	200000	1190-2000	1800sessen
United Parks	enameled steel balustrade Escalator, single unit,up or down, 4.50 m, 1200 mm wide.		+		0.065	0.100	0.083	369.231
143 101-1300	enameled steel or glass balustrade	ı,		+	0.078	0.100	0.089	307.692
143 200	MOVING WALKS							
143 201	MOVING RAMPS AND WALKS:	-						
143 201-0010	Moving walk, 686 mm tread width, 50 m long.	LM	4. 1. 2. 3.	.50 Elevator Forman .00 Elevator Constructors .00 Elevator Constructors .00 Elevator apprentice .00 Hand Tools .00 Chain Winch	3.250	4.000	3.625	7.385
143 201-0100	Moving walk, 686 mm tread width, 90 m long.				2.750	3.000	2.875	8.727
A A SALE OF LIVE AND A SALE OF LIVE	Moving walk, 686 mm tread width, 150 m long.				2.500	3.000	2.750	9.600
143 201-0300	Moving walk, 1220 mm tread width, 20 m long				2.350	3.000	2.675	10.213
143 201-0360	Moving walk, 1220 mm tread width, 30 m long				2.000	2.000	2.000	12.000
143 201-0400	Moving walk, 1220 mm tread width walk, 100 m long				1.850	2.000	1.925	12.973
143 201-0600	Moving walk,ramp, 12 degree incline, 910 mm tread width, 12 meter long				2.600	3.000	2.800	9.231
A SOLUTION IN COLUMN	Moving walk,ramp, 12 degree incline, 910 mm tread width, 20 meter long				1.700	2.000	1.850	14.118
	Moving walk,ramp, 12 degree incline, 910 mm tread width, 27 meter long				1.600	2.000	1.800	15.000
	Moving walk,ramp, 12 degree incline,1220 mm tread width, 6 meter long				1.300	1.000	1,150	18.462
	Moving walk,ramp, 12 degree incline,1220 mm tread width, 12 meter long				1.820	2.000	1.910	13.187
THE REAL PROPERTY.	Moving walk,ramp, 12 degree incline,1220 mm tread width, 21 m long	+		•	1.190	1.000	1.095	20.168
	LIFTS							
144 010	LIFTS							
144 015	CORRESPONDENCE & PARCEL LIFTS: " SMALL CAPACITY LIFTS"							
44 015-0100 (Correspondence lift, 1 floor, 2 stops. 11.30 Kg capacity, electric	EA	1.0	25 Forman 00 Elevator Workers 00 Common laborer 00 Hand tools 00 Chain winch	0.200	0.500	0.350	80.000
	Parcel lift, 508 mm x 508 mm, 1 floor, 2 stops,45 Kg capacity, electric.	,,			0.250	0.500	0.375	64.000
45	MATERIAL HANDLING SYSTEMS							
45 500	CONVEYORS	20113						
45 501 I	MATERIAL HANDLING:							
45 501-0030 k	Conveyors, Gravity type, 50 mm rollers, 76 mm O.C., 3 m sections with 2 supports, 270 kg capacity, 460 mm wide	EA	1.0	5 Forman 10 Elevator Workers 10 Elevator Worker Helper 10 Power Tools	2.500	3.000	2.750	6.400
k	Conveyors, Gravity type, 50 mm rollers, 76 mm O.C., 3 m sections with 2 supports, 270 kg capacity, 600 mm wide				2.250	3.000	2.625	7.111
	Conveyors, Gravity type, 50 mm rollers, 76 mm O.C., 3 m sections with 2 supports, 600 to capacity, 600 mm wide:				1.800	2.000	1.900	8.889
K	Conveyors, Center drive & take-up, horizontal belt, 0.3 m/s, 400 mm belt, 8 m long				0.600	1.000	0.800	26.667
	201, 010 110, 100 110, 011, 011, 011, 01				0.500	1.000	0.750	32.000
45 501-0400 C	Conveyors, Center drive & take-up, horizontal belt, 0.3 m/s, 600 mm belt, 13 m long			1 1	0.500	1.000	0.730	02.000
45 501-0400 C	The state of the s	LM			0.400	0.500	0.450	40.000
45 501-0400 C 45 501-0450 C 45 501-0500 C	Conveyors, Center drive & take-up, horizontal belt, 0.3 m/s, 600 mm belt, 13 m long Conveyors, Center drive & take-up, horizontal belt, 0.3 m/s, 600 mm belt, 19 m long Conveyor, Inclined belt, with horizontal loader and end idler assembly, 3 m rise, 8 m	LM			10020000	1000000	700,00000	
45 501-0400 C 45 501-0450 C 45 501-0500 C 45 501-0620 C 45 501-0700 C	Conveyors, Center drive & take-up, horizontal belt, 0.3 m/s, 600 mm belt, 13 m long Conveyors, Center drive & take-up, horizontal belt, 0.3 m/s, 600 mm belt, 19 m long	LM			0.400	0.500	0.450	40.000

CSI CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
45 504	VERTICAL CONVEYOR:						
45 504-0100	Vertical Conveyor Automatic between floors, selective, 1 floor 4.5 m high, 2 stops, complete with electrical hook-up	EA	0.25 Forman 2.00 Elevator Workers 1.00 Elevator Workers 1.00 Elevator Worker Helper 2.00 Power Tools 1.00 Tools set 0.50 Winch	0.150	0.500	0.325	186.667
45 600	CHUTES		VIII.				
45 601	CHUTES:				1		
45 601-0050	Chutes for liner or refuse, floor height 3.5 m, aluminized steel, 16 ga, or galvanized steel or stainless steel with sprinkler, size 450 mm diameter	FLOOR	0.25 Forman 2.00 Sheet Metal Workers 1.00 Common Laborer 2.00 Power Tools	4.000	5.000	4.500	4.000
45 601-0200	Chutes for liner or refuse, floor height 3.6 m, aluminized steel, 16 ga, or galvanized steel or stainless steel with sprinkler, size 760 mm diameter	FLOOR		3.500	4.000	3.750	4.571
45 601-0300	Chutes for liner or refuse, floor height 3.6 m, aluminized steel, 16 ga, or galvanized steel or stainless steel with sprinkler, size 900 mm diameter	EA		3.000	3.000	3.000	5.333
45 601-1200	Chutes,linen bottom collector,aluminized steel or stainless steel			4.000	5.000	4.500	4.000
45 601-1500	Chutes, refuse bottom hopper, aluminized steel upto 900 mm diameter (36")			3.000	3.000	3.000	5.333
45 800	TUBE SYSTEMS						
45 801	PNEUMATIC TUBE SYSTEM:			alica at arange	31		
45 801-0100	Pneumatic tube system, single tube, 2 stations with blower, 76 mm diameter (3")	LM	0.25 Forman 2.00 Steamfitter, Pipefitter 1.00 Common laborer 2.00 Power Tools	0.120	0.500	0.310	133.333
45 801-0300	Pneumatic tube system, single tube, 2 stations with blower, 100 mm diameter (4")			0.085	0.100	0.093	188.235
45 801-0900	Pneumatic tube system, twin tube, two stations with blower, conventional system, 100 mm diameter (4*)			0.065	0.100	0.083	246.154
45 801-1000	Pneumatic tube system, twin tube, two stations, with blower, conventional system, 100 mm x 180 mm oval			0.045	0.100	0.073	355.556
146	HOISTS & CRANES						
146 010	HOISTS & CRANES						
146 011	MATERIAL HANDLING						
146 011-2100	Overhead crane, Electric, horizontal, vertical movement, complete w / electrical connections, no rails or box beam.Capacity 2.70 Ton, 4.60 m lift	EA	0.25 Forman 2.00 Struc Steel Foreman 1.00 Electrician 2.00 Common laborer 1.00 Gas welding Machine 2.00 Power Tools 1.00 Winch	0.500	1.000	0.750	64.000
46 011-2120	Overhead crane, Electric, horizontal, vertical movement, complete w / electrical connections, no rails or box beam. Capacity 5.00 Ton., 4.6 m lift			0.450	1.000	0.725	71.111
46 011-2140	Overhead crane, Electric, horizontal, vertical movement, complete w / electrical connections, no rails or box beam.Capacity 7.50 Ton, 4.6 m lift			0.425	1.000	0.713	75.294
46 011-2160	Overhead crane, Electric, horizontal, vertical movement, complete w / electrical connections, no rails or box beam.Capacity 10.0 Ton, 4.6 m lift	ı,		0.400	1.000	0.700	80.000
46 050	RAILS						
46 054	CRANE RAIL		44				
46 054-0100	Overhead crane, box beam bridge without equipment:	KG	0.25 Struc. Steel Foreman 3.00 Struc. Steel Workers 1.00 Common laborer 1.00 Power tool 1.00 Winch 1.00 Gas welding machine	2000.000	2300.000	2150.000	0.012
46 054-0200	Overhead crane running tracks only, 0.05 Kg/ mm			3000.000	3450.000	3225.000	0.008

Division 15 Mechanical



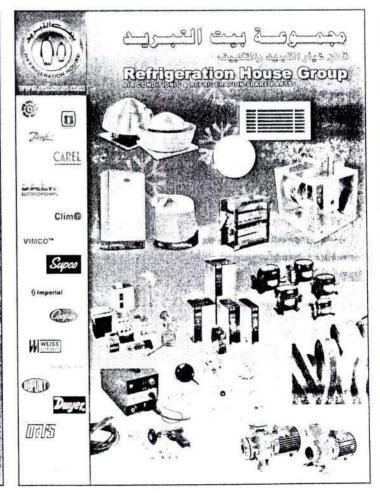


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Division 15.. Mechanical...

Estimating Tips:

151 Pipe & Fittings:

This sub-division is primarily basic pipe and related materials. The pipe may be used by any of the mechanical disciplines, i.e., plumbing, fire protection, heating and air conditioning. When operating an estimate it may be necessary to approximate the fittings. Fittings usually run between 25% and 50% of the cost of the pipe. The lower percentage is for simpler runs, and the higher number is for complex areas like mechanical room.

152 Plumbing Fixtures:

Plumbing fixture costs usually require two (2) lines, the fixture itself and its "rough-in, supply and waste".

153 Plumbing Appliances:

Estimators shall include in estimate all required vents needed for gas or fired appliances.

154 Fire Protection:

Estimators shall be aware of the system used and to include all items required. Also, estimators shall include in estimate any special requirements to meet the local fire code standards.

155 Heating:

When estimating the cost of an HVAC system, check to see who is responsible for providing and installing the temperature control system. Focus on boilers capacity whether it is output or input capacity.

156 HVAC Piping Specialties:

Be aware not to overlook correct pressure rating and type of connections (threaded, welded or flanged)

157 Air Conditioning & Ventilation:

Estimator shall be aware that the cost of duct work varies with job size and type of distribution. Estimators are advised to list all duct types, fittings and accessories to get the unit cost of duct kilogram. Estimators shall be aware of duct internal pressure.

HVAC in general is let to be specialized sub-contractors. Estimators shall focus also on insulation requirements, not to duplicate electrical work requirements for HVAC, free service warranty if required, equipment foundation, equipment and pipe painting and identification.

CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
51	PIPE & FITTINGS						
51 100	MISCELLANEOUS FITTINGS	1					
51 105	BACKFLOW PREVENTER						
51 105-4120	Backflow preventer, including gate valves, four test cocks, corrosion resistant	EΑ	1 Plumber 1 Tool sal	12.000	14.000	13.000	0.667
in Taxes vivies	Backflow preventer including gate valves, four test cocks, corrosion resistant		1 100/5/1	11.000	13.000	12.000	0.727
51 105-4140	Rackflow preventer including gate valves, four test cocks, corresion resistant			+	-		
51 105-4160	automatic, threaded 38 mm pipe size [1-1/2*]			8.000	9.000	8.500	1.000
51 105-4180	Backflow preventer, including gate valves, four test cocks, corrosion resistant automatic, threaded 50 mm pipe size [2"]			6.000	7.000	6.500	1.333
51 105-508	Backflow preventer, OS&Y valves, flanged, bronze 76 mm pipe size [3"]			6.000	7.000	6.500	1.333
51 105-510	Backflow preventer, OS&Y valves, flanged, bronze 100 mm pipe size [4"]			4.500	5.000	4 750	1.778
51 105-512	Backflow preventer, OS&Y valves, flanged, bronze 150 mm pipe size [6"]			2.650	3.000	2.825	3.019
51 105-566	Backflow preventer, OS&Y valves, flanged, iron 64 mm pipe size [2-1/2"]			6.500	7.000	6 750	1.23
51 105-570	Backflow preventer, OS&Y valves, flanged, Iron 100 mm pipe size [4"]			4.500	5.000	4.750	1.778
51 105-572	Backflow preventer, OS&Y valves, flanged, iron 150 mm pipe size [6*]			2.650	3.000	2.825	3.019
51 105-574	Backflow preventer, OS&Y valves, flanged, iron 200 mm pipe size [8"]	+	•	1.750	2.000	1.875	4.57
51 110	CLEANOUTS:	Parent Caraca					
51 110-010	Cleanout floor type round or square, nickel bronze top 50 mm pipe size [2"]	EA	0.125 Foreman 1.000 Plumber 1.000 Plumber Helper 1.00 Tool Set	9.000	10.000	9.500	0.889
51 110-012	0 Cleanout floor type round or square, nickel bronze top 76 mm pipe size [3*]			7.000	8.000	7.500	1,14
51 110-014	Oleanout floor type round or square, nickel bronze top 100 mm pipe size [4"]			5.000	6.000	5.500	1.60
51 110-110	00 Cleanout floor type round top, recessed for terrazzo 100 mm pipe size [4"]			3.750	4.000	3.875	2.133
51 115	CLEANOUT TEE:						
51 115-020	OC Cleanout tee shape cast iron with countersunk plug 50 mm pipe size [2"]	EA	Plumber Plumber Helper Tool set	6.000	7.000	6.500	1.33
51 115-024	10 Cleanout tee shape cast iron with countersunk plug 100 mm pipe size [4"]		1 (00/30)	5.000	6.000	5.500	1.60
	30 Cleanout tee cast iron with countersunk plug 150 mm pipe size [6"]			4.500	5.000	4.750	1.77
51 115-404	40 ABS, DWV, cleanout tee, 76 mm pipe size [3"]			16.000	18.000	17.000	0.50
51 115-405	50 ABS, DWV, cleanout tee, 100 mm pipe size [4"]			12.000	14.000	13.000	0.66
51 115-412	20 ABS, DWV, cleanout plug 76 mm pipe size [3"]			30.000	35.000	32.500	0.26
151 115-413	30 ABS, DWV, cleanout plug 100 mm pipe size [4"]			25.000	29.000	27.000	0.32
151 115-420	ABS. DWV, cleanout adapter fitting, 76 mm pipe size [3"]			30.000	35,000	32,500	0.26
151 115-42	10 ABS, DWV, cleanout adapter fitting, 100 mm pipe size [4"]			25.000	29 000	27.000	0.32
151 115-50	30 PVC, DWV, cleanout tee, 76 mm pipe size [3"]			16.000	18.000	17.000	0.50
151 115-50	40 PVC, DWV, cleanout tee, 100 mm pipe size [4"]	1	+	12.000	14.000	13.000	0.66
151 120	CONNECTORS:						
151 120-02	Connectors flexible, corrugated, 22 mm O.D., 13 mm I.D., gas, seamless brass, steel fittings 600 mm long [24"]	EA	1 Plumber 1 Tool set	28.000	32 000	30.000	0.28
151 120-03	Connectors flexible, corrugated, 22 mm O.D., 13 mm I.D., gas, seamless			25.000	29.000	27,000	0.32
151 120-22	Connector flexible corrupated, 22 mm Q D13 mm LD, Water.	$\dagger \dagger$		28.000	32 000	30.000	0.28
151 125	DRAINS:		1				
Partial Laborator	00 Drains, Deck, auto park, C.I., 330 mm top, from 76 mm to 150 mm pipe size.	EA	Plumber Plumber Apprentice Tool set	7.000	8.000	7.500	1.1
151 125-20	Drains, floor, medium duty, C.1, double flange, 178 mm top, from 50 mm to 76 mm	1		10.000	12.000	11.000	0.8
	Drains heavy duty with sediment bucket C.1. 300 mm loose grate, from 76 mm to	++		7.00	8 000	7 500	1.1
151 125-24	150 mm pipe	++	+	6.00		6.500	
	20 Drain, shower, with strainer, uniform diam, trap, bronze top, 100 mm pipe size	++				13.000	
	190 Drain, roof, flat metal deck, C.I. body, 300 mm C.I. dome 76 mm pipe size	11	+	12.00	+		+
Det V. Chermon	Drain, roof, flat metal deck, C.I. body, 300 mm C.I. dome 150 mm pipe size Drain, scupper floor, oblique strainer, C.I. 150 x 180 mm top, from 50 mm to 100 mm				+		1 12 11 12
151 125-49	pipe size			13.00	+		
151 125-51	Drain, scupper floor, oblique strainer, C.I. 200 x 300 mm top, 127 and 150 mm pipe			11.00	0 13,000	12.000	0.7
151 125-60	Drain, trench floor, heavy duty, modular, C.I., 300 mm x 300 mm top, from 50 mm to 150 mm pipe	1	1	6.00	0 7.000	6.500	1.3

CSI		SHOW	CREW	E S WAY		D. O.	AVRG.
CODE	ITEM DESCRIPTION	UNIT	STRUCTURE	D. O. MIN.	D. O. MAX.	AVRG.	E. H.
51 125-7100	Backwater valve, soil pipe, C.I. body, bronze gate and automatic flapper valves for pipes from 76 mm to 150 mm	1	↓ ↓	10.000	12,000	11.000	0.80
51 125-7340	Backwater valve, soil pipe, C.I. body, bronze flapper valve, bolted cover 150 mm pipe size	EA	2 Plumbers 1 Plumber Apprentice 2 Tools Set	14.000	16.000	15,000	1,14
51 141	FAUCETS / FITTINGS:		E. Francisco				
51 141-0150	Bath, faucets, diverter spout combination, sweat	EA	1 Plumber 1 Tool set	6.000	7.000	6.500	1.3
51 141-0840	Flush valves, with vacuum breaker for water closet		1 Tool Set	6.000	7.000	6.500	1.3
51 141-1000	Automatic flush sensor and operator for kitchen sink faucets, top mount, cast spout			8.000	1000000	8.500	1.0
Carlo Maria Da Maria	Laundry faucets, shelf type, iron pipe size."IPS" or copper unions			10.000	12.000	11.000	0.8
51 141-2100	Lavatory faucet, centerset, without drain			8.000	9.000	8.500	1.0
51 141-3000	Service sink faucet, cast spout, pail hook, hose end			12.000	14.000	13.000	0.6
Eschant Septice	Shower by-pass valve with union			15.000	17.000	16,000	0.5
51 141-4200	Shower thermostatic mixing valve, concealed			6.000	7.000	6.500	1.3
51 141-5000	Sillcock, compact, brass, IPS or copper to hose			18.000	21.000	19.500	0.4
51 156	HYDRANTS:						717
1 156 0000	Underst wall have made at all part have a 100 UDO UDO UDO	44	1 Plumber	46,000	11.000	40.000	
71 130 -0200	Hydrant wall type, moderate climate, bronze, encased 20 mm IPS connection [3/4"]	EA	1 Plumber Apprentice 1 Tool set	12.000	14.000	13.000	0.6
51 156 -3100	Hydrant ground box type, bronze frame, 20 mm IPS connection, all bronze, polished face, set flush, 600 mm depth of bury			6,000	7.000	6.500	1.3
1 156 -5120	Hydrant, wall type moderate climate, all bronze, polished face and cover, set flush, 25 mm IPS connection[1"]	.		11.000	13.000	12.000	0.7
51 165	SHOCK ABSORBERS:						
51 165-0500	Shock absorbers copper 20 mm male IPS for 1 to 11 fixtures	EA	1 Plumber 1 Tool set	9.000	10.000	9.500	0.8
51 165-0700	Shock absorbers copper 32 mm male, IPS for 33 to 60 fixtures		1	7.000	8.000	7.500	1.1
51 165-0800	Shock absorbers copper 38 mm male I.P.S. for 61 to 113 fixtures			7.000	8.000	7.500	1.1
51 165-1000	Shock absorbers copper 64 mm male I.P.S. for 155 to 330 fixtures			3.000	3.000	3.000	2.6
51 170	SUPPORT / CARRIERS:						
51 170-0600	Supports/ carriers for dringking fountain, wall mounted, plate type with studs, top back plate	EA	1 Plumber 1 Tool set	5.000	6.000	5 500	1.6
51 170-3050	Supports/ carriers for lavoratory, concealed arm wall mounted in masonry.		1 foot set	4.000	5.000	4.500	0.0
State Section Children	Supports/ carriers for sink, floor/ wall mounted, exposed arm system			3.000	3.000	3.000	0.0
51 170-6200	Supports/ carriers for urinal, floor/wall mounted,50 mm or 76 mm coupling with bearing			4.000	5.000	4.500	0.0
	plate Supports/ carriers for water closet, siphon set, horizontal, adjustable, caulk, single, 100		<u> </u>	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		110/2003	- 937.8
51 170-7040	mm pipe size			4.000	5.000	4.500	0.0
51 170-7820	Supports/ carriers for water closet, blowout, vertical offset, caulk or thread, single, 100 mm pipe size			4.000	5.000	4.500	0.0
51 170-8240	Supports/ carriers for water closet, residential, floor mounted, single, 76 mm caulk, 50 mm or 76 mm vent			3.000	3.000	3.000	0.0
51 170-9100	Supports/ carriers for water cooler (electric), floor mounted, plate type with bearing			4.000	5.000	4.500	2.0
51 181	plate, single TRAPS:	+	!		5.000	4.000	
			1 Plumber				
	Cast iron "C.I." Service weight, long P trap, 50 mm pipe size, up to 460 mm long.	EA	Plumber Apprentice Tool set	12.000	14.000	13.000	0.6
51 181-2120	Running trap, C.I., Service weight, single hub, with vent, 100 mm pipe size, 100 mm vent			10,000	12.000	11.000	0.8
51 181-3420	C.I., Service weight, deep seal trap, 50 mm pipe size [2"]			11.000	13.000	12.000	0.7
181-3440	C.t., Service weight, deep seal trap, 76 mm pipe size [3"]			10.000	12.000	11.000	0.8
51 181-3800	C.I., Service weight, drum trap, 100 x 127 mm, 50 mm tapping		2 Plumbers 1 Plumber Apprentice	12.000	14.000	13.000	1.3
1 181-4840	Copper, drainage, drum trap 76 mm x 150 mm swivel, 38 mm pipe size		2 Tools Set 1 Plumber	12.000	14.000	13.000	0.6
	Copper, drainage, P trap, standard pattern, 76 mm pipe size		1 Tool set	9.000	10.000	9.500	0.8
Charles and the second	Copper, drainage, P trap with cleanout and slip joint, 38 mm pipe size			12.000	14,000	13.000	0.6
51 185	VACUUM BREAKERS: STRAIGHT RUN, FITTINGS NOT	•	.		A SOMEON		
1 185,1040	INCLUDED Vacuum breaker anti-ciphos breas 5 mm size	<i></i> ,	1 Plumber	00.000	00.000	04 505	
	Vacuum breaker, anti-siphon, brass, 6 mm size	EA	1 Tool set	20.000	23.000	21.500	0.4
	Vacuum breaker, anti-siphon, brass, 13 mm size	-		20.000	23.000	21.500	0.4
	Vacuum breaker, anti-siphon, brass, 25 mm size			16.000	18.000	17.000	0.5
1100-1160	Vacuum breaker, anti-siphon, brass, 50 mm size	1.	1 1	9.000	10.000	9.500	0.8

151 195-1040 V 151 195-1060 V 151 195-1060 V 151 200 F 151 201 F 151 201-0100 P 151 201-0200 P 151 201-0200 P 151 201-1080 P 151 201-1080 P 151 201-1080 P 151 201-1080 P 151 201-1080 P 151 201-1140 P	Vent flashing, alum, with lead ring or copper with neoprene ring, size 32 mm pipe. Vent flashing, alum, with lead ring or copper with neoprene ring, size 50 mm pipe. Vent flashing, alum, with lead ring or copper with neoprene ring, size 100 mm pipe. PIPING See also divisions 026 & 027 for sitework. PIPING PIPING See also divisions 026 & 027 for sitework. PIPING See also divisions 026 & 027 for sitework. PIPING See also divisions 026 & 027 for sitework. PIPING See also divisions 026 & 027 for sitework. PIPING See also divisions 026 & 027 for sitework. PIPING See also divisions 026 & 027 for sitework. PIPING See also divisions 026 & 027 for sitework. PIPING See also divisions 026 & 027 for sitework. PIPING Add to labor for elevated installation, if building from 4 to 6 floors: piping Add to labor for elevated installation, if building floor to floor height, from 5 in to 8.0 m. PIPING Add to labor for elevated installation, if building floor to floor height, from 8 in to 10.0 m. PIPING Add to labor for elevated installation, if building floor to floor height, from 1.0 in to 12.0 m.	Perce	1 Piumber 1 Tool set	IURE	17,000 15,000 14,000	D. O. MAX. 20.000 17.000 16.000	18.500 16.000 15.000	E. H. 0,471 0.533 0.571
51 195-1040 V 51 195-1060 V 51 195-1060 V 51 200 F 51 201 F 151 201 OP 151 201-0200 P 151 201-0200 P 151 201-1080 P	Vent flashing, alum, with lead ring or copper with neoprene ring, size 50 mm pipe Vent flashing, alum, with lead ring or copper with neoprene ring, size 100 mm pipe PIPING PIPING See also divisions 026 & 027 for sitework PIPING See also divisions 026 & 027 for sitework PIPING ELEVATED INSTALLATION Piping, Add to labor for elevated installation, for building from 4 to 5 floors Piping, Add to labor for elevated installation for building from 6 floors: Piping, Add to labor for elevated installation, if building floor to floor height, from 4 to 7 m to 10,0 m Piping, Add to labor for elevated installation, if building floor to floor height, from 8.1 m to 8.0 m Piping, Add to labor for elevated installation, if building floor to floor height, from 8.1 m to 8.0 m Piping, Add to labor for elevated installation, if building floor to floor height, from 8.1 m to 8.0 m Piping, Add to labor for elevated installation, if building floor to floor height, from 8.1 m to 10.0 m Piping, Add to labor for elevated installation, if building floor to floor height, from 8.1 m to 10.0 m Piping, Add to labor for elevated installation, if building floor to floor height, from 8.1 m to 10.0 m	1	1 Tool set		15.000	17.000	16.000	0.533
51 195-1060 V 51 200 F 51 200 F 51 201 F 151 201 F 151 201-0100 P 151 201-0300 P 151 201-1080 P 151 201-1080 P 151 201-1080 P 151 201-1140 P 151 201-1140 P	Vent flashing, alum, with lead ring or copper with neoprene ring, size 100 mm pipe PIPING See also divisions 026 & 027 for sitework PIPING ELEVATED INSTALLATION Piping, Add to labor for elevated installation, for building from 4 to 6 floors piping, Add to labor for elevated installation for building from 6 floors pip to 10 floors Piping, Add to labor for elevated installation, if building floor to floor height, rom 8 m to 4.6 m Piping, Add to labor for elevated installation, if building floor to floor height, rom 4.6 m to 6.0 m Piping, Add to labor for elevated installation, if building floor to floor height, rom 6.1 m to 8.0 m Piping, Add to labor for elevated installation, if building floor to floor height, rom 8.1 m to 8.0 m Piping, Add to labor for elevated installation, if building floor to floor height, rom 8.1 m to 10.0 m Piping, Add to labor for elevated installation, if building floor to floor height, rom 8.1 m to 10.0 m	Perce	4		1			
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151 201-1160 P	Piping, Add to labor for elevated installation, if building floor to floor height,							
151 201-1200 P	from 10.1 m to 12.0 m		-		-			
151 201-1200	Piping, Add to labor for elevated installation, if building floor to floor height,	0150					-	
and the second second	more than 12.0 m		1					
151 250 E	BRASS PIPE							
151 251 F	PIPE, BRASS:				,			
	Pipe, brass, plain end, field threaded, coupling & clevis hanger 3 m O.C. 13 mm diameter [1/2"]	LM	0.125 Plumber F 1.000 Plumber 1.000 Plumber A 0.375 Tools Set 1.000 Power & I	pprentice	21.120	24.000	22.560	0.521
	Pipe, brass, plain end, field threaded, coupling & clevis hanger 3 m O.C. 20 mm diameter [3/4"]		Tools	-	20.210	23.000	21.605	0.544
151 251-1160 F	Pipe, brass, plain end, field threaded, coupling & clevis hanger 3 m O.C. 25 mm				19.270	22.000	20.635	0.571
25.7	diameter [1"] Pipe, brass, plain end, field threaded, coupling & clevis hanger 3 m O.C. 38 mm	+			16.240	19.000	17.620	0.677
1	diameter [1-1/2"] Pipe, brass, plain end, field threaded, coupling & clevis hanger 3 m O.C. 50 mm		+		976500013	1.0400000000	M. (3859/1529)	500 p.10.0
	diameter [2 ^h]	+		00	15.740	18.000	16.870	0.699
151 300	CAST IRON PIPE							
151 301 I	PIPE, CAST IRON:							
	Pipe, cast Iron on hangers 1.5 m O.C., single hub, service wt., lead & oakum joints 3 m O.C. 50 mm diameter [2"]	LN	0.125 Plumber I 1.000 Plumber 1.000 Plumber 0.375 Tool Set 1.000 Power & Tools	Apprentice	14.410) 17.000	15.705	0.763
	Pipe, cast iron on hangers 1.5 m O.C., single hub, service wt., lead & oakum joints 3 m O.C. 100 mm diameter [4"]		0.125 Plumber 1 2.000 Plumber 1.000 Plumber 0.375 Tool Set 1.000 Power & Tools	Apprentice	14.530	17.000	15.765	0.757
	Pipe, cast iron on hangers 1.5 m O.C., single hub, service wt., lead & oakum joints 3 m O.C. 150 mm diameter [6"]				10.460	12.000	11.230	1.052
151 301-2200	Pipe, cast iron on hangers 1.5 m O.C., single hub, service wt., lead & oakum joints 3 m O.C. 200 mm diameter [8"]				8.370	10.000	9.185	1.314
151 301-2200	O.C. 250 mm dameter [8] Pipe, cast iron on hangers 1.5 m O.C., single hub, service wt., lead & oakum joints 3 m O.C. 250 mm dameter [10]				7.230	8.000	7.615	1,521
151 301,2200	Pipe, cast iron on hangers 1.5 m O.C., single hub, service wt., lead & oakum joints 3 m				5.850	7.000	6.425	1.880
151 301,2322	O.C. 300 mm diameter [12"] Pipe, cast iron on hangers 1.5 m O.C., double hub, service wt., lead & oakum joints 3 m				13.80	16.000	14.900	0.797
151 301-2325	O.C. 100 mm diameter [4"] Pipe, cast iron on hangers 1.5 m O.C., double hub, service wt., lead & oakum joints 3 m			-	9.93	0 11.000	10.465	1.108
151 301-2342	O.C. 150 mm diameter [6"] Pipe, cast iron on hangers 1.5 m O.C., single hub, extra heavy wt., lead & oakum joints	\vdash	1		13.80		14.900	0.797
151 301,2345	3 m O.C. 100 mm diameter [4"] Pipe. cast iron on hangers 1.5 m O.C., single hub, extra heavy wt., lead & oakum joints	H	-		9.93		10 465	1 108
151 301-4100	3 m Q.C. 150 mm diameter [6"] Pipe C.I. on hangers 1.5 m. O.C., no hub, service wt., lead & oakum joint coupling.	H	-	DAIL O'RES	20.12		21 560	0.54
	coupling 3 m O.C., 38 mm diameter [1-1/2"] Pipe C.I. on hangers 1.5 m. O.C., no hub, service wt., lead & oakum joints, coupling		-		16.05	- market	17.025	1000
	3 m O.C., 100 mm diameter [4"] CAST IRON PIPE FITTING: STRAIGHT RUN, FITTINGS NOT INCLU	DE				-		
	C.I. hub pipe fitting, standard weight Bend, Regular or Sweep, size 50mm	E	0.125 Foreman		32.00	0 37.6ა0	34.500	0.25
	C.I. hub pipe fitting, standard weight Bend, Regular or Sweep, size 76mm	-	1.00 Tool Set	1000	28.00	0 32.000	30.000	0.28

CSI	ITEM DESCRIPTION	UNIT		EW CTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
151 310-0180	C.I. hub pipe fitting, standard weight Bend, Regular or Sweep, size 100mm				21.000	24.000	22.500	0.38
151 310-0200	C.I. hub pipe fitting, standard weight Bend, Regular or Sweep, size 150mm				14.000	16.000	15.000	0.57
151 310-0210	C.i. hub pipe fitting, standard weight Bend, Regular or Sweep, size 200mm				11.000	13.000	12.000	0.72
151 310-0620	C.I. hub pipe fitting; standard weight Tee, size 100 mm		1		10.000	12.000	11.000	0.80
151 310-0660	C.I. hub pipe fitting; standard weight Tee, size 200 mm				6.000	7.000	6.500	1.33
151 310-0800	C.I. hub pipe fitting; standard weight Trap, size 50 mm				32.000	37.000	34.500	0.25
151 310-0840	C.I. hub pipe fitting; standard weight Trap, size 76 mm				28.000	32.000	30.000	0.28
151 310-0860	C.I. hub pipe fitting; standard weight Trap, size 100 mm				21.000	24.000	22.500	0.38
151 310-0860	C.I. hub-pipe fitting; standard weight Trap, size 150 mm				14.000	16.000	15.000	0.57
151 310-0880	C.I. hub pipe fitting; standard weight Trap, size 200 mm				11.000	13.000	12.000	0.72
151 310-1000	C.I. hub pipe fitting; standard weight Wye, size 50 mm				16.000	18.000	17.000	0.50
151 310-1100	C.I. hub pipe fitting; standard weight Wye, size 100 mm			diri-	10.000	12.000	11.000	0.80
151 310-1140	C.I. hub pipe fitting, standard weight Wye, size 150 mm		1		7.000	100000000000000000000000000000000000000	7.500	1.14
151 310-1300	C.I hub pipe fitting; standard weight Double Wye or Cross, size 50 mm				10.000	12.000	11.000	0.80
151 310-1320	C.I hub pipe fitting; standard weight Double Wye or Cross, size 76 mm				9.000	10.000	9.500	0.88
151 310-1340	C.I hub pipe fitting; standard weight Double Wye or Cross, size 100 mm				7.000	8.000	7.500	1.14
151 310-1360	C.I hub pipe fitting; standard weight Double Wye or Cross, size 150 mm				5.000	6.000	5.500	1.60
151 310-1380	C.I hub pipe fitting; standard weight Double Wye or Cross, size 200 mm		2		4.000	5.000	4.500	2.00
151 310-2000	C.I non hub pipe fitting, standard weight Quarter or Sweep Bend, size 38 mm	EA	0.125 Foreman 1.000 Plumber 1.000 Plumber 1.00 Tool Set		28.000	32.000	30.000	0.28
51 310-2020	C.I non hub pipe fitting, standard weight Quarter or Sweep Bend, size 50 mm		1,00 1001 361		24.000	28.000	26.000	0.33
Statement of the last	C.I non hub pipe fitting, standard weight Quarter or Sweep Bend, size 100 mm				17.000	20.000	18.500	0.47
51 310-2100	C.I non hub pipe fitting, standard weight Quarter or Sweep Bend, size 200 mm				11.000	13.000	12.000	0.72
51 310-2300	C.I non hub pipe fitting; standard weight Stainless Steel Coupling, size 50 mm				60.000	69.000	64.500	0.13
51 310-2400	C.I non hub pipe fitting; standard weight Stainless Steel Coupling, size 200 mm				60.000	69.000	64.500	0.13
51 310-2600	C.I non hub pipe fitting; standard weight Sanitary Tee, size 50 mm				15.000	17.000	16.000	0.53
51 310-2700	C.I non hub pipe fitting; standard weight Sanitary Tee, size 150 mm.				9.000	10.000	9.500	0.88
51 310-2740	C.I non hub pipe fitting; standard weight Sanitary Tee, size 200 mm				7.000	8.000	7,500	1.14
51 310-2800	C.I non hub pipe fitting; standard weight Sanitary Cross, size 50 mm				13.000	15.000	14.000	0.61
51 310-2880	C.I non hub pipe fitting; standard weight Sanitary Cross, size 100 mm				9.000	10.000	9.500	0.88
51 310-2960	C.I non hub pipe fitting; standard weight Sanitary Cross, size 200 mm	8	29		8.000	9.000	8.500	1.00
51 400	COPPER PIPE & TUBING		-	hi-				
51 401	PIPE, COPPER: INCLUDING I COUPLING, 1 TEE & 1 ELL EVERY 6 METERS						NII PAREEL	
51 401-1200	Pipe, copper solder joints type K tubing, coupling, & clevis hangers 3 m O.C. 25 mm diameter	LM	0.125 Plumber 1,000 Plumber 1,000 Plumber 0.375 Tools Se 1,000 Power & Tools	Apprentice I	16.750	19.000	17.875	0.65
51 401-1260	Pipe, copper solder joints type K tubing, coupling, & clevis hangers 3 m O.C. 50 mm diameter				12.710	15.000	13.855	0.86
51 401-2100	Pipe, copper solder joints type L tubing, coupling. & hangers 3 m O.C. 6 mm diameter			100 0000	32.900	38.000	35.450	0.33
51 401-2180	Pipe, copper solder joints type L tubing, coupling, & hangers 3 m O.C. 20 mm diameter	-	+					
	[3/4"] Pipe, copper solder joints type L tubing, coupling, & hangers 3 m O.C. 25 mm diameter		-		28.610	33.000	30.805	0.38
51 401-2200					25.430	29.000	27.215	0.43
51 401-2260	Pipe, copper solder joints type L tubing, coupling, & hangers 3 m O.C. 50 mm diameter [2"]				15.890	18.000	16.945	0.69
51 401-2300	Pipe, copper solder joints type L tubing, coupling, & hangers 3 m O.C. 76 mm diameter			Tooling Hard	11.130	13.000	12.065	0.98
51 401-2340	[3"] Pipe, copper solder joints type L tubing, coupling, & hangers 3 m O.C. 100 mm diameter [4"]				7.790		8,395	1.41
51 401-2380	Pipe, copper solder joints type L tubing, coupling, & hangers 3 m O.C. 150 mm diameter [6"]		0.125 Plumber 2.000 Plumber 1.000 Plumber 0.375 Tools Se 1.000 Power & Tools	Apprentice t	10.940	13.000	11.970	1.00

CSI CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
51 401-4120	Pipe copper, silver solder joints type DWV tubing, coupling, & hangers 3 m O.C. 50 mm diameter [1-1/2"]		0.125 Plumber Foreman 1 000 Plumber 1 000 Plumber Apprentice 0.375 Tools Set 1,000 Power 3 Pipe Power Tools	12.710	15,000	13.855	0.865
51 401-4140	Pipe coppier, type DWV tubing, coupling & hangers 3 mm o.c 50 mm diameter [2"]		H	16.690	19.000	17.845	0.659
51 401-4200	Pipe copper, type DWV tubing, coupling & hangers 3 mm o c 150 mm diameter [6"]	LM	0.125 Plumber Foreman (inc) 2.000 Plumber 1.000 Plumber Apprecision 0.375 Tools Set 1.000 Plumer & Pipe Power Tools	11.480	13 000	12.240	0.958
151 450	CORROSION RESISTANT PIPE						
151 451	PIPE, CORROSION RESISTANT:						
151 451-1100	Pipe, corrosion resistant, no coupling, or hangers, iron alloy, drain, mechanical joint, 50 mm diameter [2"]	LM	125 Plumber Foreman 1 000 Plumber 1 000 Plumber Apprentice 0.375 Tools Set 1 000 Power & Pipe Power Tools	15.500	18.000	16.750	0.710
151 451-1140	Pipe, corrosion resistant, no coupling, or hangers, iron alky, drain, mechanical joint, 100 mm diameter [4*]			11 630	13 000	12 315	0 946
151 451-3120	Pipe, plastic, expoxy, fiberglass filament wound 100 mm diameter			10.170	12.000	11.085	1.082
151 451-3980	Pipe.plastic polyster, liberglass filament wound 50 mm diameter			14.340	16.000	15.170	0.767
151 451-5000	Pipe.plastic polyppropylene, acid resistant, fire retardent, schedule 40, 38 mm diameter			15.890	18.000	16.945	0.692
151 451-5140	Pipe, plastic polyppropylene, acid resistant, fire retardent, schedule 40, 100 mm diameter			10.330	12.000	11.165	1.065
151 451-6120	Pipe, plastic proxylene, fire retardant, schedule 40, 76 mm diameter			12.000	14.000	13.000	0.917
151 500	GLASS PIPE	-	1				
151 501	PIPE, GLASS:						
151 501-1100	Pipe, glass borosilicate, couplings & hangers 3 m O.C. drainage 38 mm diameter	ĹM	125 Plumber Foreman 1.000 Plumber 1.000 Plumber Apprentice 0.375 Tools Set 1.000 Power & Pipe Power Tools	12.000	14.000	13 000	0.917
151 501-1120	Pipe, glass borosilicate, couplings & hangers 3 m O.C. drainage 50 mm diameter	(390)	*	9.000	10.000	9.500	1.222
151 550	PLASTIC PIPE						
151 551	PIPE, PLASTIC: See Division 151 451	Т —	0 125 Plumber Foreman	1			
151 551-0240	Pipe, plastic, liberglass reinforced, couplings, 3 m O.C. hangers 90 mm, high strength. 50 mm diameter [2"]	LM	1,000 Plumber 1,000 Plumber Apprentice 0,375 Tools Set 1,000 Power & Pipe Power Tools	13.26	15.000	14 130	0.830
151 551-0280	Pipe, plastic, fiberglass reinforced, couplings 3 m O.C. hangers 90 mm, high strength, 100 mm diameter [4"]			10,61	12.000	11.305	1.03
151 551-0300	Pine plactic thereface reinforced countings 3 m O.C. hangers 90 mm, high			8.49	0 10.000	9.245	1,29
151 551-1870	Pipe, PVC, couplings, 3 m O.C., hangers 90 mm schedule 40, 20 mm diameter [3/4"]	П		25.30	0 29.000	27.150	0.43
151 551-188(Pipe, PVC, couplings, 3 m O.C., hangers 90 mm schedule 40, 25 mm diameter [1"]	H	+	22.77	0 26.000	24 385	0.48
	Pipe, PVC, couplings, 3 m O.C., hangers 90 mm schedule 40, 38 mm diameter [1-1/2"]	+	-	20.49	0 24.000	22.245	0.53
				17.42		18.710	
	Pipe, PVC, couplings, 3 m O.C., hangers 90 mm schedule 40, 50 mm diameter [2"]	1					20780
151 551-1920	Pipe, PVC, couplings, 3 m O.C., hangers 90 mm schedule 40, 64 mm diameter [2-1/2"]		+	14.81	0 17.000	15.905	0.74
151 551-195	Pipe, PVC, couplings, 3 m O.C., hangers 910mm schedule 40, 127 mm diameter [6"]		0 125 Plumber Foreman (ins 2 000 Plumbers 1 000 Plumber Heiper 0 375 Tools Set 1 000 Power & Pipe Power Tools	16.20	0 19.400	17.600	0 67
151 551-414	Pipe, plastic, DWV "drainage,wase,vent" type ABS or PVC, schedule 40, including couplings 3 m O.C., hangers 90 mm, 32 mm diameter		0.125 Plumber Foreman (ins 1.000 Plumbers 1.000 Plumber Helper 0.375 Tools Set 1.000 Power & Pipe Power	24.59	23.0^0	24.035	() 4
		1	Tools				
151 551-416	Pipe, plastic, DWV "drainage,wase,vent" type ABS or PVC, schedule 40, including couplings 3 m O.C., hangers 90 mm. 50 mm diameter	++	Tools	17,42	20.000	18.710	0.63

CSI	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D, O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
151 551-5480	Pipa, CPVC schedule 40, couplings 3 m o.c., hangers 90 mm, 25 mm diameter			22,770	26.000	24.385	0.48
151 551-5530	Pipe, CPVC schedule 40, couplings 3 m o.c., hangers 90 mm, 76 mm diameter			15.550	18.000	16.775	0.70
151 600	STAINLESS STEEL PIPE		1				
151 601	PIPE, STAINLESS STEEL:	-					
151 601-3550	Pipe, stainless steel, threaded, couplings and hangers 3 m, O.C., schedule 40, type 304/316, 6 mm diameter	LM	0.12S Plumber Foreman (ins) 1.000 Plumbers 1.000 Plumber Helper 0.375 Tools Set 1.000 Power & Pipe Power Tools	24.920	29 000	26.960	0.44
151 601-3550	Pipe, stainless steel, threaded, couplings and hangers 3 m, O.C., schedule 40, type 304/316, 10 mm diameter			24.300	28.000	26.150	0.450
151 601-3560	Pipe, stainless steel, threaded, couplings and hangers 3 m, O C.,			23.080	27.000	25.040	0.47
151 601-3570	schedule 40, type 304/316, 13 mm diameter Pipe, stainless steel, threaded, couplings and hangers 3 m, O.C.,			21.930	25.000	23.465	0.502
	schedule 40, type 316, 20 mm diameter Pipe, stainless steel, threaded, couplings and hangers 3 m, O.C.,			20000000	50000000000000000000000000000000000000	SALES OF THE SALES	20,000
151 601-3580	schedule 40, type 304/316, 25 mm diameter			20.830	24.000	22.415	0.528
151 601-3610	Pipe, stainless steel, threaded, couplings and hangers 3 m, O.C., schedule 40, type 304/316, 50 mm diameter			15.620	18.000	16.810	0.704
151 601-3640	Pipe, stainless steel, threaded, couplings and hangers 3 m, O.C., schedule 40, type 304/316, 100 mm diameter	Į.		13.280	15.000	14.140	0.828
151 700	STEEL PIPE	-					
151 701	PIPE, STEEL:						
151 701-0560	Pipe, Steel black to A-53, schedule 40,or Galvanized, threaded with couplings, clevis type hangers, 3 m O.C., black, 13 mm diameter	LM	0.125 Plumber Foreman (ins) 1.000 Plumbers 1.000 Plumber Helper 0.375 Tools Set 1.000 Power & Pipe Power Tools	31.150	36.000	33.575	0.350
151 701-0570	Pipe, Steel black to A-53, schedule 40,or Galvanized, threaded with couplings, clevis type hangers, 3 m O.C., black, 20 mm diameter			29.770	34.000	31.885	0.369
151 701-0580	Pipe, Steel black to A-53, schedule 40,or Galvanized, threaded with couplings, clevis type hangers, 3 m O.C., black, 25 mm diameter			28.360	33.000	30.680	0.388
151 701-0590	Pipe, Steel black to A-53, schedule 40, or Galvanized, threaded with couplings, clevis type hangers, 3 m O.C., black, 32 mm diameter			26 410	30.000	28.205	0.417
151 701-0600	Pipe, Steel black to A-53, schedule 40,or Galvanized, threaded with couplings, clevis type hangers, 3 m O.C., black, 38 mm diameter	LM	0.125 Plumber Foreman (ins) 1.000 Plumbers 1.000 Plumber Helper 0.375 Tools Set 1.000 Power & Pipe Power Tools	24.410	28.000	26.205	0.45
151 701-0610	Pipe, Steel black to A-53, schedule 40,or Galvanized, threaded with couplings, clevis type hangers, 3 m O.C., black, 50 mm diameter			22 260	26.000	24.130	0.494
151 701-0620	Pipe, Steel black to A-53, schedule 40,or Galvanized, threaded with couplings, clevis type hangers, 3 m O.C., black, 64 mm diameter			20.390	23.000	21,695	0.539
151 701-0630	Pipe, Steel black to A-53, schedule 40,or Galvanized, threaded with couplings, clevis			18.630	21,000	19.815	0.590
151 701-0650	hype hangers, 3 m O.C., black, 76 mm diameter Pipe, Steel black to A-53, schedule 40,or Galvanized, threaded with couplings, clevis type hangers, 3 m O.C., black, 100 mm diameter		0.125 Plumber Foreman (ins) 2.000 Plumbers 1.000 Plumber Helper 0.375 Tools Set 1.000 Power & Pipe Power Tools	(Watership)	26.000	24.445	0.48
151 701-0660	Pipe, Steel black to A-53, schedule 40,or Galvanized, threaded with couplings, clevis		Tools	15.440	18.000	16.720	0.712
151 701-0670	type hangers, 3 m O.C., black, 127 mm diameter Pipe, Steel black to A-53, schedule 40,or Galvanized, threaded with couplings, clevis			13.430	15.000	14.215	0.819
THE PROPERTY OF THE PARTY OF TH	type hangers, 3 m O.C., black, 150 mm diam. Pipe,Galvanized,threaded w/couplings,clevis type hangers, 3 m O.C., 200 mm	+					
151 701-1430	diameter. Pipe.Galvanized,threaded w/couplings,clevis type hangers, 3 m O.C., 250 mm			10.610	12.000	11,305	1.03
151 701-1440	diameter.			9.040	10.000	9.520	1.21
151 701-1450	Pipe,Galvanized,threaded w/couplings,clevis type hangers, 3 m O.C., 300 mm diameter.		.	7.550	9.000	8.275	1.45
51 701-2040	Pipe. Steel black to A-53, schedule 40, welded, on yoke & roll hangers at 3 m O.C., 25 mm diameter		0.125 Plumber Foreman (ins) 1.000 Plumbers 1.000 Plumber Helper 0.375 Tools Set 1.000 Electric Welding Machine	23.170	27.000	25.085	0.47
	Pipe, Steel black to A-53, schedule 40, welded, on yoke & roll hangers at 3 m O.C., 50 mm diameter			17.450	20.000	18.725	0.63
51 701-2090	Pipe, Steel black to A-53, schedule 40, welded, on yoke & roll hangers at 3 m O.C., 76			15.060	17.000	16.030	0.73
	mm diameter Pipe, Steel black to A-53, schedule 40, welded, on yoke & roll hangers at 3 m O.C., 100 mm diameter		0.125 Plumber Foreman 2.000 Plumber 1.000 Plumber Apprentice 1.000 Electric Welding Machine	18.510		19 755	0.59

CSI	ITEM DESCRIPTION	UNI	Т	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
51 701-2130	Pipe, Steel black to A-53, schedule 40, welded, on yoke & roll hangers at 3 m O.C.,				10.860	12.000	11.430	1.013
1 701-2140	150 mm diameter Pipe, Steel black to: A-53, schedule 40, welded, on yoke & roll hangers at 3 m O.C.				8.580	10.000	9.290	1,282
1 701-2160	200 mm diameter Pipe, Steef black to A-53, schedule 40, welded, on yoke & roll hangers at 3 m O.C.,				6.100	7.000	6.550	1.803
	300 mm diameter GROOVED JOINT PIPE	*		*	0.100	7.000	0.500	1.000
51 800								
51 801	PIPE, GROOVED-JOINT STEEL FITTINGS & VALVES: Pipe, Grooved-joint black steel schedule 40, or Galvanized, including coupling & clevis type hanger 3 m O.C., 20 mm diameter	EA		0.125 Plumber Foreman 1,000 Plumber 1,000 Plumber Apprentice 0,375 Tools Set 1,000 Power & Pipe Power Tools	26.790	31.000	28.895	0.41
51 801-1060	Pipe, Grooved-joint black steel schedule 40, or Galvanized, including coupling & clevis type hanger 3 m O.C., 32 mm diameter				23.770	27.000	25.385	0.460
51 801-1070	Pipe, Grooved-joint black steel schedule 40, or Galvanized, including coupling & clevis		_		21.970	25.000	23.485	0.50
III area Source	Pine Grooved-joint black steel schedule 40, or Galvanized, including coupling & clevis		-		20.030	23.000	21.515	0.549
51 801-1080	type hanger 3 m O.C., 50 mm diameter Pine Grooved-joint black steel schedule 40, or Galvanized, including counting & clevis.						Cutations	7
51 801-1100	type hanger 3 m O.C., 76 mm diameter			•	16.760	19.000	17.880	0.656
51 801-1110	Pipe, Grooved-joint black steel schedule 40, or Galvanized, including coupling & clevis type hanger 3 m O.C., 100 mm diameter			0.125 Plumber Foreman 2.000 Plumber 1.000 Plumber Apprentice 0.375 Tools Set 1.000 Power & Pipe Power Tools	20.600	24.000	22 300	0.534
51 801-1120	Pipe, Grooved-joint black steel schedule 40, or Galvanized, including coupling & clevis				13.900	16.000	14.950	0.79
51 801-1130	type hanger 3 m O.C., 127 mm diameter Pipe, Grooved-joint black steel schedule 40, or Galvanized, including coupling & clevis				12.090	14.000	13.045	0.91
51 801-4030	type hanger 3 m O.C., 150 mm diameter Pipe, Steel fitting: Elbow 90\ or 45 painted 20 mm diameter		100	1 Plumber	42.000	48.000	45.000	0.19
	Pipe, Steel fitting: Eibow 90\or 45\ painted 25 mm diameter	1	-	1 Tool set	40.000	46.000	43.000	0.20
eurover (- 720	Pipe, Steel fitting: Eibow 90\or 45 painted 50 mm diameter		-	<u> </u>	22.000		23.500	0.36
	Pipe, Steel fitting: Elbow 90\ or 45 painted 64 mm diameter	E	4	0 125 Plumber Foreman 1 000 Plumber 1 000 Plumber Apprentice 1 000 Tool Set	32 000	37.000	34.500	0.25
51 801-4100	Pipe, Steel fitting: Elbow 90\ or 45 painted 100 mm diameter			T QUO TODI SEL	20.000	23.000	21.500	0.40
	Pipe, Steel fitting: Elbow 90\ or 45\ painted 150 mm diameter			120	14.000	16.000	15.000	0.57
	Pipe, Steel fitting: Tee, painted, 20 mm diameter	E	61	0.125 Plumber Foreman 1.000 Plumber 1.000 Plumber Apprentice 1.000 Tool Set	32.000	37.000	34.500	0.25
51 801-4740	Pipe, Steel fitting: Tee, painted, 25 mm diameter	E	A	1 Plumber 1 Tool set	30.000	35.000	32.500	0.26
51 801-4770	Pipe, Steel fitting: Tee, painted, 50 mm diameter				17.00	20.000	18.500	0.47
51 801-4800	D Pipe, Steel fitting: Tee, painted, 100 mm diameter	STEEL		0.125 Plumber Foreman 1.000 Plumber 1.000 Plumber Apprentice 1.000 Tool Set	15.00	0 17.000	16.000	0.53
51 801-482	Pipe, Steel fitting: Tee, painted, 150 mm diameter			*	11.00	0 13.000	12.000	0.73
51 801-490	B Pipe, Steel fitting, Couplings, rigid style or flexible, painted, 25 mm diameter			1 Plumber 1 Tool set	72.00	0 83.000	77.500	0.1
51 801-491	Pipe, Steel fitting. Couplings, rigid style or flexible, painted, 50 mm diameter		200	' ж	40.00	0 46.000	43.000	0.2
51 801-491	8 Pipe, Steel fitting, Couplings, rigid style or flexible, painted, 100 mm diameter			0.125 Plumber Foreman 1.000 Plumber 1.000 Plumber Apprentice 1.000 Tool Set	36.00	0 41.000	38.500	0.2
51 801-492	2 Pipe, Steel fitting, Couplings, rigid style or flexible, painted, 150 mm diameter		V	*4	25.20	0 29.000	27.100	0.3
51 950	VALVES		1000		reservations			
51 951	VALVES, BRASS:							
51 951-053	0 Valves, brass, Gas stops, without checks, 13 mm size	E	A	1 Plumber 1 Tool set	22 00	0 25 000	23 500	0.3
51 951-055	0 Valves, brass, Gas stops, without checks, 25 mm size				16.00	18.000	17.000	0.5
51 951-056	0 Valves, brass, Gas stops, without checks, 32 mm size			l l	12.00	00 14.000	13.000	0.6
151 955	VALVES, BRONZE:				- Julieoneu			
151 955-105	0 Valves, bronze, Angle or Ball, 1034 kPa, rising stem, threaded 10 mm size	E	A	1 Plumber 1 Tool set	22.00	0 25 000	23 500	0.5
151 955-108	0 Valves, bronze. Angle or Ball, 1034 kPa, rising stem, threaded 25 mm size		Г		16 00	18 000	17.000	1 0
151 955-111	0 Valves, bronze, Angle or Ball, 1034 kPa, rising stem, threaded 50 mm size				9.00	10.000	9.500	0.8
151 955-186	O Valves, bronze, Check, swing, regrinding disc, Class 150, threaded. 20 mm size				17.00	20.000	18.500	0.4
	O Valves, bronze, Check, swing, regrinding disc, Class 150, threaded, 38 mm size	1			11.00	00 13.000	12.000	0.

CSI	ITEM DESCRIPTION	UNIT	CREW	D O MIN	D. O. MAX.	D. O.	AVRG.
CODE	Transport of the Paris of the P	ON	STRUCTURE			AVRG.	E. H.
151 955-1900	Valves, bronze, Check, swing, regrinding disc, Class 150, threaded, 50 mm size		0.125 Plumber Foreman	9.000	10.000	9,500	0.889
151 955-1910	Valves, bronze, Check, swing, regrinding disc, Class 150, threaded, 64 mm size		1.000 Plumber 1.000 Plumber Apprentice 1.000 Tool Set	12.000	14.000	13.000	0.66
151 955-2020	Valves, bronze, Check, swing, regrinding disc, 2068 kPa, threaded, 50 mm size		1 Plumber 1 Tool Set	7.000	8.000	7.500	1.14
151 955-2940	Valves, bronze, Gate, non rising stem, soldered, 862 kPa, 20 mm size [3/8"]		#	17.000	20.000	18.500	0.47
151 955-2980	Valves, bronze, Gate, non rising stem, soldered, 862 kPa, 50 mm size [3/8"]			9.000	10.000	9.500	0.88
151 955-3000	Valves, bronze, Gate, non rising stem, soldered, 862 kPa, 76 mm size [3/6*]		0.125 Plumber Foreman 1.000 Plumber 1.000 Plumber Apprentice 1.000 Tool Set	11.000	13.000	12.000	0.72
151 955-4000	Valves, bronze, Gate, rising stem, soldered, 2068 kPa, 76 mm size			11.000	13.000	12.000	0.72
51 955-4340	Valves, bronze, Gate or Globe, threaded, rising stem, Class 150, 20 mm size		1 Plumber 1 Tool set	17.000	20.000	18.500	0.47
151 955-4370	Valves, bronze, Gate or Globe threaded, rising stem, Class 150, 38 mm size		1 1007 501	11.000	13.000	12.000	0.72
151 955-4400	Valves, bronze, Gate or Globe,threaded,rising stem, Class 150, 76 mm size		0.125 Plumber Foreman 1.000 Plumber 1.000 Plumber Apprentice 1.000 Tool Set	11.000	13.000	12.000	0.72
51 955-5650	Valves, bronze, Relief pressure & Temperature, self-closing. 25 mm size		1 Plumber 1 Tool set	20.000	23.000	21,500	0.40
51 955-5680	Valves, bronze, Relief pressure & Temperature, self-closing, 50 mm size		1	13.000	15.000	14.000	0.61
Control of the Control	Valves, bronze, Relief pressure, poppet type, threaded, 20 mm size			24.000	28.000	26.000	0.33
51 955-6480	Valves, bronze, Relief pressure, water, threadedd, 50 mm size			13.000	15.000	14.000	0.61
51 955-6950	Valves, bronze, Reducing, water pressure, 2068 kPa to 172-517 kPa, threaded or sweat		 	17.000	20.000	18.500	0.47
-	20 mm size Valves, bronze, Reducing, water pressure, 2068 kPa to 172-517 kPa, threaded or sweat	\vdash	1 Plumber		Dances Co.	1100000000	35/30/
51 955-6970	32 mm size		1 Tool set	12.000	14.000	13.000	0.66
	Valve, bronze, Tempering, water, threaded connections, 50 mm size	+		9.000	10.000	9.500	0.88
51 960	VALVES, IRON BODY:		T. m. d.				
51 960-1030	Valves iron body, Butterfly, wafer type, gear actuator, 50 mm size	EA	1 Plumber 1 Tool set	11.000	13.000	12.000	0.72
51 960-1050	Valves iron body, Butterfly, wafer type, gear actuator, 76 mm size		0 125 Plumber Foreman 1,000 Plumber 1,000 Plumber Apprentice 1,000 Tool Set	7.000	8.000	7.500	1.14
51 960-1060	Valves iron body, Butterfly, wafer type, gear actuator, 100 mm size		ļ ,	4.000	5.000	4.500	2.00
51 960-1080	Valves iron body, Butterfly, wafer type, gear actuator, 150 mm size		0.125 Plumber Foreman 1.000 Plumber 1.000 Plumber Apprentice 1.000 Tool Set	3.500	4.000	3.750	2.28
51 960-2200	Valve iron body, Gate, 862 kPa.Non rising stem, or (OS&Y) ouside screw & yoke,Flanged, 50 mm size	EA	1 Plumber 1 Tool set	4.000	5.000	4.500	2.00
51 960-2280	Valve iron body, Gate, 862 kPa.Non rising stem, or (OS&Y) ouside screw & yoke,Flanged, 100 mm size		0.125 Plumber Foreman 1.000 Plumber 1.000 Plumber Apprentice 1.000 Tool Set	2.500	3.000	2.750	3.20
51 960-2300	Valve iron body, Gate, 862 kPa.Non rising stem, or (OS&Y) ouside screw & yoke,Flanged, 150 mm size			2.500	3.000	2.750	3.20
51 960-5500	Valve, iron body, Swing check, 862 kPa, Threaded, 50 mm size		1 Plumber	9.000	10.000	9.500	0.86
	Valve, iron body, Swing check, 862 kPa,Threaded, 76 mm size		1 Tool set 0.125 Plumber Foreman 1.000 Plumber 1.000 Plumber Apprentice 1.000 Tool Set	11.000		12.000	0.72
51 960-5560	Valve, iron body, Swing check, 862 kPa, Threaded, 100 mm size		н	8.000	9.000	8.500	1.00
51 960-6000	Valve, iron body, Swing check, 862 kPa, Flanged, 50 mm size		1 Plumber 1 Tool set	4.000	5.000	4.500	2.00
51 960-6050	Valve, iron body, Swing check, 862 kPa, Flanged, 76 mm size		0.125 Plumber Foreman 1.000 Plumber 1.000 Plumber Apprentice 1.000 Tool Set	3.500	4.000	3.750	2.28
51 960-6070	Valve, iron body, Swing check, 862 kPa, Flanged, 150 mm size	1		2,500	3.000	2.750	3.20
51 975	VALVES, PLASTIC:		Adding the same				
51 975-1120	Valve, Angle or Ball, PVC or CPVC, threaded, 13 mm size	EA	1 Plumber 1 Tool set	21.000	24.000	22.500	0.38
51 975-1130	Valve, Angle or Ball, PVC or CPVC, threaded, 20 mm size			20.000	23.000	21.500	0.40
51 975-1260	Valve, Ball, PVCor CPVC, socket or threaded, single union, 32 mm size			17.000	20.000	18.500	0.47
51 975-1280	Valve, Ball, PVC or CPVC, socket or threaded, single union, 50 mm size			14.000	16.000	15.000	0.57
51 975-2150	Valve, ball. Polypropylene, threaded, 25 mm size			20.000		21.500	0.40
	Valve, Foot. PVC, socket or threaded, 13 mm size			27.000	100	29.000	0.2
	Valve, Foot, PVC, socket or threaded, 25 mm size			23.000	-	24.500	0.3
	Valve, Foot, PVC, socket or threaded, 38 mm size			21.000	1	22.500	0.3

CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
51 975-6470	Strainer, Y sediment, PVC, socket or threaded, 38 mm size		1	17.000	20.000	18.500	0.471
51 980	VALVES, STEEL:			1			
	Valves Cast steel Check,swing type,Gate or Globe,1034 kPa,llanged, 50 mm size	EΑ	1 Plumbe	6.000	7.000	6.500	1,333
	Valves, Cast steel, Check, swing type, Gate or Globe, 1034 kPa, flanged, 76 mm size		1 Tool set 0 125 Plumber Foreman 1,000 Plumber 1,000 Plumber Apprenticu	3.500		3.750	2.280
			1.000 Tools Set	-			
51 980-1460	Valves, Cast steel, Check, swing type, Gate or Globe, 1034 kPa, flanged, 100 mm size Valves, Cast steel, Check valve, forged steel, Class 800, horizontal, socket or threaded,		1 Plumber	2.500	3.000	2.750	3.20
51 980-5750	25 mm size		1 Tool set	16.000	18.000	17.000	0.50
51 980-5760	Valves.Cast steel,Check valve, forged steel, Class 800, horizontal, socket or threaded, 25 mm size	↓	74.	12.000	14.000	13.000	0.66
152	PLUMBING FIXTURES	1.2					
152 100	FIXTURES						
52 101	FIXTURES: Incudes trim fittings, unless oterwise noted, for rough-in, supply, waste, and vent, see add for each type for electric water coolers, see division 153 -105 for color, unless otherwise noted, add						
52 104 52 104-0140	BATHS: Bath tubs, recessed porcelain enamel on cast iron, with trim 1067 mm x 940 mm	EA	0 125 Plumber Foreman 1,000 Plumber 1,000 Plumber Apprentice 1,000 Tools Set	3.500	4.000	3.750	2.28
152 104-0220	Bath tubs, recessed porcelain enamel on cast iron, with trim 1829 mm x			2.500	3.000	2.750	3.20
Territoria de la composición dela composición de la composición dela composición de la composición dela composición de la composición de l	914 mm Bath tubs, enameled formed steel, 1524 mm long	-	 	3.750	I WARRAN	3.875	2.13
52 104-6100	Bath, whirlpool, with vented overflow, molded fiberglass 1676 mm	-	 	0.850		0.925	9.41
	x 1219 mm x 610 mm Rough-in, supply, waste and vent, for all above tubs based on 18 m supply, plastic & 18	-	ļ	10000000	1000000	887 3600	Garage
52 104-9600	meters DWV plastic piping			3.250	4.000	3.625	2.46
52 104-9620	Rough-in, supply, waste and vent, for all above tubs based on 18 m supply, copper & 18 meters DWV cast iron piping		\	2.250	3.000	2.625	3.55
152 116	DRINKING FOUNTAIN:						
152 116-2000	Drinking fountain, wall mounted, Bronze,cast aluminium or fiberglass, 300 mm back, single bublier unit	EA	0.125 Plumber Foreman 1.000 Plumber 1.000 Plumber Apprentice 1.000 Tools Set	6.000	7.000	6.500	1.33
152 116-2040	Drinking fountain, wall mounted, Bronze,cast aluminium or fiberglass, 300 mm back, dual bubiler unit			5.000	6.000	5.500	1.60
52 116-2400	Drinking fountain, precast stone, no back			6,000	7.000	6 500	1.33
152 116-2700	Drinking fountain, stainless steel, single bubbler, no back			6.000	7.000	6.500	1.33
152 116-2820	Drinking fountain, stainless steel, dual bubbler, with back, & dual level for hadicapped.	I I		5.000	6.000	5.500	1.60
152 116-3300	Drinking fountain, viterous China, 178 mm back	EA	0 125 Plumber Foreman 1 000 Plumber 1 000 Plumber Apprentice 1 000 Tools Set	6.000	7.000	6.500	1.33
152 116-3940	Drinking fountain, viterous China, 178 mm back, with vendal resistant		1000 1000	6.000	7.000	6.500	1.33
152 116-4000	bottom plate. Drinking fountain, wall mounted, semi-recessed, poly-marble, single bubbler			6.000	7.000	6.500	1.30
152 116-7600	Drinking fountain, floor mounted, pedestal type, aluminum, architectural			3.500	4.000	3.750	2.28
152 116-9980	style, C.I. base Rough-in, Supply, vent & waste for drinking fountain, at 20 m, plastic supply piping and 20 m of DWV plastic piping			3.700	4.000	3.850	2 16
152 116-9990	Rough-in, Supply, vent & waste for drinking fountain, at 20 m, copper supply piping and	T		2.500	3.000	2.750	3.20
152 124	20 m of DWV cast iron piping INDUSTRIAL SAFETY FIXTURES Rough-in not included		J				
152 124-1000	Eye wash fountain, plastic bowl or stainless steel, pedestal mounted or wall mounted.	EA	0.125 Plumber Foreman 1.000 Plumber 1.000 Plumber Apprentice	4,000	5.000	4.500	2.0
152 124-5000	Shower, multi- nozzle,eye/face wash comination		1 000 Tool Set	5.000	6.000	5.500	1 60
52 128	INTERCEPTORS			- Property			
52 128-0150	Interceptors, grease, 50 mmcast iron, 250 mL/s, 3.6 kg fat capacity,	EA	1 Plumber 1 Tool set	3.00	3 000	3.000	2.6
	Interceptors, grease, 50mm cast iron, 947 mL/s, 13.6 kg fat capacity.			2.25	3.000	2 6ed	3.5
	interceptors, grease, 76 mm cast iron, 1260 mL/s, 18 kg fat capacity.		1	1,75	2.000	165	4:
52 128-1160	Interceptors, grease, cast iron, 6300 mUs, 90.7 kg fat capacity.		0.125 Plumber Foreman 1.000 Plumber 1.000 Plumber Apprentice 1.000 Tool Set	1.75	2.000	1.875	4.5
		and the second second		-			

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CSI CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
152 128-4000	Interceptors, oil, fabricated steel, 630 mL/s, 50 mm pipe size			3.000	3.000	3.000	2.66
152 128-4120	Interceptors, oil, fabricated steel, 1260 mL/s, 50 mm or 76 mm pipe size		 	2.250	3.000	2.625	3.55
152 128-4220	Interceptors, oil, fabricated steel, 6310 mL/s, 76 mm pipe size		0.125 Plumber Foruman 1.000 Plumber 1.000 Plumber Apprentice 1.000 Tool Set	1.750	2,000	1.875	4.57
152 128-6000	interceptors, solids & precious metals recovery, C.I., 32 mm to 50 mm pipe		1 Plumber 1 Tool set	3.000	3.000	3.000	2.66
152 128-6100	Interceptors, dental lab, large, C.I., 38 mm to 50 mm pipe		**	2.250	3.000	2.625	3.556
152 136	LAVATORIES: With trim						
152 136-0640	Lavatory, Vanity top, Porcelain enamel on cast iron, 836 mm x 482 mm oval	EA	0.125 Plumber Foreman 1.000 Plumber 1.000 Plumber Apprentice 1.000 Tool Set	6.000	7.000	6.500	1.333
152 136-1040	Lavatory, Vanity top, Cultured marble, single bowl, 635 mm x 482 mm, single bowl			6.000	7.000	6.500	1.33
152 136-1900	Lavatory, Vanity top, Stainless steel, self-rimming, 635 mm x 560 mm, single bowl, ledge			6.000	7.000	6.500	1.33
152 136-2600	Lavatory, Vanity top, Steel, enameled, 508 mm x 432 mm, single bowl	-	 	5.500	6.000	5,750	1,45
	Lavatory, Vanity top, Vitreous china, 560 mm x 483 mm, single bowl			4.750	5.000	4.875	1.684
	Rough-in, supply, waste and vent for all Vanity top lavatories; plastic piping,			3.740	7.500	3.870	2.139
	approximate run of 18 m each for both supply & DWV Rough-in, supply, waste and vent for all vanity top lavatories; copper supply piping, cast	-		-			
106 100 0000	iron DWV piping, approximate run of 18 m each for both supply & DWV			2.600	3.000	2.800	3,077
	Lavatory, wall hung, Porcelain enamel on cast iron, 560 mm x 482 mm, single bowl			7.500	9.000	8.250	1.067
	Lavatory, wall hung, Vitreous china, 460 mm x 380 mm, single bowl with backsplash			6.500	7.000	6,750	1.231
	Lavatory, wall hung, Vitreous china, 483 mm x 483 mm, corner style			7,500	9.000	8.250	1.067
	Rough-in, supply, waste and vent for wall hung lavatories; plastic piping, approximate run of 18 m each for both supply & DWV		↓ ↓	2.200	3.000	2.600	3.636
152 140	LAUNDRY SINKS: With trim						
	Laundry sink Porcelain enamel on cast iron, black iron frame, 610 mm x 584 mm, single compartment	EA	0.125 Plumber Foreman 1.000 Plumber 1.000 Plumber Apprentice 1.000 Tool Set	5.500	6.000	5.750	1.455
152 140-2020	Laundry sink, Molded stone on wall hangers or legs 560 mm x 530 mm, single compartment			5.500	6.000	5.750	1.455
	Laundry sink, Molded stone on wall hangers or legs 1140 mm x 530 mm,			4.500	5.000	4,750	1,778
	double compartment Laundry sink, Plastic, on wall hangers or legs, 1016 mm x 610 mm, double	-					
	compartment. Rough-in, supply, waste and vent for laundry sink; plastic piping, approximate run of 18			5.000	6.000	5.500	1.600
102 140 3000	m each for both supply & DWV			3.500	4.000	3.750	2,28
	Rough-in, supply, waste and vent for laundry sink; copper supply piping and cast iron DWV piping approximate run of 18 m each for both supply & DWV		↓ ↓	2.400	3.000	2.700	3.333
A STANSANCE OF THE STAN	SHOWERS:	-					
152 148-3100	Showers, Stall, with door and trim, fiberglass, one piece, 3 walls, 910 mm x 910 mm	EA	0.125 Plumber Foreman 1.000 Plumber 1.000 Plumber Apprentice 1.000 Tool Set	2.750	3.000	2.875	2.909
52 148-3250	Showers, Stall, with door and trim, fiberglass, one piece, 3 walls, 1626 mm x 1670 mm	EA	0.125 Plumber Foreman 1.000 Plumber 1.000 Plumber Apprentice 1.000 Tool Set	2.000	2.000	2.000	4.000
	Rough-in, supply, waste and vent for shower stall; plastic piping, approximate run of 18 m each for both supply & DWV			3.250	4.000	3.625	2.462
52 148,4990	Rough-in, supply, waste and vent for shower stall; copper supply piping, and Cast iron			2.250	3.000	2.625	3.556
	DWV piping; approximate run of 18 m each for both supply & DWV Shower built-in, head, arm,252 mUs valve	-	 	6,500	7.000	6.750	1.23
2287.21992	SINKS:	*	1	0.300	7.000	0.730	1.20
52 152 -2100	Kitchen sink with faucets and drain , counter top, Porcelain enamel on C.I., 760 mm x 530 mm single bowl	EA	0.125 Plumber Foreman 1.000 Plumber 1.000 Plumber Apprentice	5.750	7,000	6.375	1.39
	Kitchen sink with faucets and drain , counter top, Stainless steel, self rimming, 635 mm x 560 mm single bowl.		1.000 Tool Set	5,750	7.000	6.375	1.39
	Rough in, supply, waste and vent for countertop sink, plastic piping, approximate run of 18 m each for both supply & DWV			3.500	4.000	3.750	2.28
	Kitchen sink with faucets and drain, raised deck, Porcelain enamel on C.I.,			2.750	3.000	2.875	2.90
	813 mm x 533 mm dual level, double bowl Rough-in, supply, waste and vent for wall service sink; plastic piping,approximate run of				1990,000	F-803-656	51/00/00/5
JE 10E 0130	18 m each for both supply & DWV	+	.	2.300	3.000	2.650	3.47
52 168	URINALS:						
52 168-3000	Urinals, Wall hung, Vitreous china, with hanger & self-closing valve	EA	0.125 Plumber Foreman 1.000 Plumber 1.000 Plumber Apprentice 1.000 Tool Set	4.000	5.000	4.500	2.00

CSI	15: MECHANICAL		CREW			D. O.	AVRG.
CODE	ITEM DESCRIPTION	UNIT	STRUCTURE	D. O. MIN.	D, O. MAX.	AVRG.	E. H.
52 168-3300	Rough-In, supply, waste and vent for wall hung urinal; plastic piping,approximate run of 18 m each for both supply & DWV			3.250	4.000	3.625	2.462
52 168-5000	Urinal Stall type, Vitreous china, includes valve	+	•	3.250	4.000	3.625	2.46
52 180	WATER CLOSETS:						
52 188-0200	Water closets, tank type, wall hung, one piece. Vitreous china, including seat, supply pipe w/stop	EA	0 125 Plumber Foreman 1,000 Plumber 1,000 Plumber Apprentice 1,000 Tool Set	5.750	7.000	6.375	1.39
52 180-1000	Water closet tank type, Vitreous china, floor mounted, one piece			6.750	8.000	7.375	1.18
52 180-1980	Rough-in, supply, waste, vent & carrier for wall hung water closet; plastic piping, approximaterun of 10 m each for both supply and DWV			3.250	4.000	3.625	2.46
52 180-1990	Rough-in, supply, waste, vent & carrier for wall hung water closet; copper supply piping, & cast iron DWV piping, approximate run of 10 m each for both supply and DWV			2.250	3.000	2.625	3.55
52 180-3100	Water closet, bowl only, With flush valve, seat, wall hung or floor mounted.			6.000	7.000	6.500	1.33
52 180-3200	For rough-in, supply, waste and vent, WC		+	3.500	4.000	3.750	2.28
52 400	PUMPS See also Division 154 145						
52 410	PUMPS, CIRCULATING Heated or chilled water application						
52 410-1100	Pump, circulating, bronze, flange connection, 20 mm to 38 mm size, 1/3 HP	EA	0.125 Plumber Foreman 1.000 Plumber 1.000 Plumber Apprentice 1.000 Tool Set	5.000	6,000	5.500	1,60
52 410-1180	Pump, circulating, bronze, flange connection, 64 mm size, 1/4 HP			4.000	5.000	4.500	2,00
52 410-2100	Pump, circulating, C.I. flanged connection 19 mm to 38 mm size in line, 1/3 HP			5.000	6.000	5.500	1.60
52 410-2220	Pump, circulating, C.I. flanged connection 76 mm size in line, 1/4 HP			3.250	4.000	3.625	2.46
52 415	PUMPS, CONDENSATE RETURN SYSTEM		T				
52 415-0200	Pump, condensate, simplex motor, float switch, controls, cas iron receiver	EA	0.125 Plumber Foreman 1.000 Plumber 1.000 Plumber Apprentice 1.000 Tool Set	0.875	1.000	0.938	9.14
52 415-1000	Pump, condensate, duplex, 2 pumps, motors, float switch, alternator) (a)	0.375	0.500	0.438	21.3
152 430	assembly, C.I. receiver PUMPS, GENERAL UTILITY With motor, mounted on base						
52 430-0300	Pump, general utility, multi-stage, horizontal split, for boiler feed applications two stage. 76 mm discharge x 100 mm suction, 75 HP	EA	0.50 Steamfitter Forernan 2.00 Steamfitters 0.50 Electrician 1.00 Steamfitter Apprentice 2.00 Tools Set 1.00 Chain Winch		0.500	0.350	160.00
52 430-0340	Pump, general utility, multi-stage, horizontal split, for boiler feed applications four stage,		1 00 Gas Welding M/C	0.125	0.500	0.313	256.0
152 430-2100	Pump, general utility, single stage, end suction, 38 mm discharge x 76 mm suction, 10			0.550		0.775	58.18
152 430-2140	Pump, general utility, single stage, end suction, 50 mm discharge x 76 mm suction, 15 HP			0.500	1.000	0.750	64.0
152 430-3060	Pump, general utility, single stage, double suction, 76 mm discharge x 100 mm suction.			0.400	1.000	0.700	80.0
152 430-3180	15 HP Pump, general utility, single stage, double suction, 150 mm discharge x 200 mm			0.200	0.500	0.350	160.0
Mesa Tables est	suction, 60 HP Pump, general utility, single stage, double suction, 100 HP, to 3000 GPM	+++	 	0.170	L DOWNSON	0.335	188.2
	Pump, general utility, single stage, double suction, 150 HP, to 4000 GPM	EA	0.50 Steamhtter Foreman 2.00 Steamhtters 0.50 Electrician 1.00 Steamhtter Apprentice 2.00 Tools Set 1.00 Chain Winch 1.00 Cas Welding M/C	0.150		0.325	213.3
152 450	PUMPS, PRESSURE BOOSTER SYSTEM	1	Process are consistent and another				
152 450-0420	Pressure booster pump system, with diaphragm tank, control & pressure switch 2 HP	EA	0 125 Plumber Foreman 1 000 Plumber 1 000 Plumber Apprentice 1 000 Tool Set	1.000	1.000	1.000	8.0
152 450-0440	Pressure booster pump system, with diaphragm tank, control & pressure switch 3 HP	II	11	0.900	1.000	u 950	6.8
52 450-0460	D Pressure booster pump system, with diaphragm tank, control & pressure switch 5 HP		0 125 Plumber Foreman 2 000 Plumber 1 000 Plumber Apprentice 2 000 Tool Set	1.20	1.000	1,100	13.3
	Pressure booster pump system with diaphragm tank, control & pressure switch 10HP	1	W.	1.(2)	1	1.535	0.0
152 450-0500		T.		110,00			
Water Officer	PUMPS, PEDESTAL SUMP				1	1	
152 450-0500 152 460 152 460-0400	PUMPS, PEDESTAL SUMP Sump pump, pedestal, molded base, 1325 mL/s at 4.5 m head, 1/3 HP	EA	1 Plumber 1 Tool Set	3.50	4.000	3.750	2.

CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
52 465-0500	Pump, sewage ejector simplex system incl. tank, cover, 4.5 m head, 140 Liter,polyethylene tank, 757 mL/s, 1/2 HP, 50 mm discharge [2"]	EA	0.125 Plumber Foreman 1.000 Plumber 1.000 Plumber Apprentice 1.000 Tool Set	2.750	3.000	2.875	2.909
52 465-0660	Pump, sewage ejector simplex system incl. tank, cover, 4.5 m head, 170 Liter, polyethylene tank, 8 L/s, 3/4 HP, 76 mm discharge [3"]			2.500	3.600	2.750	3.200
52 465-0710	Pump sewage ejector, simplex system including tank, cover, 4.5 m head. 265 Liter, polyethylene tank, 757 mL/s, 1/2 HP, 76 mm discharge			2.250	3.000	2.625	3.556
52 465-0760	Pump sewage ejector, simplex system including tank, cover, 4.5 m head, 265 Liter, polyethylene tank, 8 L/s, 1 HP, 50 mm discharge			2.000	2.000	2.000	4.000
52 480	PUMPS, SUBMERSIBLE	11 O V	· · · · · · · · · · · · · · · · · · ·				77.00
HE S COUNTY WESTERN	Submersible, sump pump, automatic, cast iron, 32 mm discharge, 1/4 HP	EA	0.125 Plumber Foreman 1.000 Plumber 1.000 Plumber Apprentice 1.000 Tool Set	5.000	6.000	5.500	1.60
52 480-7560	Submersible, sump pump, automatic, cast iron, 32 mm discharge, 1/2 HP	-	tusto rodi set	4.000	5.000	4.500	2.00
52 490	PUMPS, WELL See Div. 026704	-	2000				
and the same of th	PLUMBING APPLIANCES						
153 100	WATER APPLIANCES						
153 105	WATER COOLER:			-			
100	TATER COOLER.	T	0.125 Plumber Foreman	1			
53 105-0100	Water cooler, wall mounted, non-recessed, 7 Gal. per hour	EA	1.000 Plumber 0.250 Electrician 1.000 Plumber Apprentice 1.000 Tool Set	3.750	4.000	3.875	2.13
53 105-4720	Water cooler, floor mounted, flush-to-wall, 12 gal. per hour			5.750	7.000	6.375	1.39
53 105-5000	Water cooler, floor mounted, dual height, 12 gal. per hour	1		3.750	4.000	3.875	2.13
53 110	WATER HEATERS For solar, see Division 155 -471	192-23-20					
53 110-1000	Residential, water heater, electric, glass lined tank, 38 liter, single element	EA	0 125 Plumber Foreman 1.000 Plumber 0.250 Electrician 1.000 Plumber Apprentice 1.000 Tool Set	5.000	6.000	5.500	1.60
53 110-1060	Residential, water heater, electric, glass lined tank, 100 liter, double element			4.500	5.000	4.750	1.77
53 110-1100	Residential, water heater, electric, glass lined tank, 200 liter, double element			4.000	5.000	4.500	2.00
53 110-1180	Residential, water heater, electric, glass lined tank, 400 liter, double element			2.750	3.000	2.875	2.90
53 110-4120	Commercial water heater, electric, 50 liter, 6 kW			3.500	4.000	3.750	2.28
53 110-4160	Commercial water heater, electric, 200 liter, 9 kW			3.000	3.000	3.000	2.66
53 110-4320	Commercial water heater, electric, 700 liter, 120 kW			1.500	2.000	1.750	5.33
53 110-6060	Commercial, water heater, gas fired, flush jacket, std. controls, vent not incl.			2.500	3.000	2.750	3.20
153 110-6340	29 kW input, 360 liter/Hr Commercial, water heater, gas fired, flush jacket, std. controls, vent not incl. 352 kW input, 4350 liter/Hr		 	0.350	0.500	0.425	22.85
153 150	WATER TREATMENT, POTABLE						
153 150-6100	Water tratment, potable, softener systems, automatic, hardness capacity between regenerations and flow, 150 000 grains 2.3 Us cont., 3.2 Us peak	EA	0.125 Plumber Foreman 1.000 Plumber 0.250 Electrician 1.000 Plumber Apprentice 1.000 Tool Set	1.000	1.000	1.000	8.00
53 150-6200	Water tratment, potable, softener systems, automatic, hardness capacity between regenerations and flow, 300 000 grains 5.1 L/s cont., 7.1 L/s peak			0.800	1.000	0.900	10.00
53 150-6300	Water tratment, potable, softener systems, automatic, hardness capacity between regenerations and flow, 750 000 grains 10.1 L/s cont., 14.5 L/s peak			0.700	1.000	0.850	11,42
53 150-6400	Water tratment, potable, softener systems, automatic, hardness capacity between regenerations and flow, 900 000 grains 11.7 L/s cont., 17.0 L/s peak	EA	0.125 Plumber Foreman 1.000 Plumber 0.250 Electrician 1.000 Plumber Apprentice 1.000 Tool Set	0.600	1.000	0.800	13.33
153 160	WATER SUPPLY METERS	-					
53 160-2100	Water meter, domestic/ commercial, bronze, threaded, 25 mm diameter, to 3.2 L/s	EA	1 Plumber 1 Tool Set	9.000	10.000	9.500	0.88
53 160-2340	Water meter, domestic/commercial, bronze, threaded/flanged, 38 mm diameter, to	TT		6.000	7.000	6.500	1.30
53 160-2360	6.31 L/s Water meter, domestic/ commercial, bronze, threaded/flanged, 50 mm diameter, to	++		5.000	-	5.500	1.60
53 160-2640	10.1 Us Water meter, domestic/commercial, bronze, threaded, flanged. compound, 76 mmdlameter, to 20.2 Us		0.125 Plumber Foreman 1.000 Plumber 1.000 Plumber Apprentice	2.700		2.850	2.9
53 160-2650	Water meter, domestic/commercial, bronze, threaded, flanged, compound, 100 mm diameter, to 31.5 Us	#	1.000 Tools Set	1.356	2.000	1.675	5.93
154	FIRE PROTECTION						
54 100	FIRE SYSTEMS				1		

CSI		Chuch	CREW	St. 35 COSCIII		D. O.	AVRG.
CODE	ITEM DESCRIPTION	UNIT	STRUCTURE	D. O. MIN.	D. O. MAX.	AVRG.	E. H.
54 101-1000	Automatic fire suppression systems dispersion nozzle, CO2, 76 mm x 127 mm	ΕA	1 Plunber 1 Tool Set	14.000	16.000	15.00C	0.571
54 101-1100	Automatic fire suppression systems dispersion nozzle, FM 200, 38 mm			11,000	13.000	12.000	0.727
54 101-2000	Fire extinguisher, CO2 system, high pressure, 34 kg cylinder		0 125 Plumber Foremen 1 090 Plumber 1 090 Plumber Apprentice 1 090 Tool Set	5.000	6.000	5.500	1.600
54 101-2540	Fire extinguisher, FM 200 system, filled, with mounting bracket 89 kg container			3.000	3.000	3.000	2.667
54 101-3000	Fire extinguisher, FM 200 system,filled,including mounting bracket & provided with electro/mechanical release, 89 kg container			1,500	2.000	1,750	5.333
54 115	FIRE EQUIPMENT CABINETS						
54 115-3000	Fire cabinet, 20 ga. steel box, hose rack assy. 38 mm valve & 30 m hose, 610 mm x 1016 mm, aluminum or steel or stainless steel door and frame	EA	0.125 Foreman 1.000 Sprinkfor Installer 1.000 Sprinkfor Apprentice 1.000 Tool Set	5.000	6.000	5.500	1.600
54 115-5000	Fire cabinet, 20 ga. steel box, hose rack assy, 64 mm x 38 mm valve & 30 m hose, 610 mm x 1016 mm, aluminum or steel or stainless steel door and frame	+	4	5.000	6.000	5.500	1,600
154 125	FIRE EXTINGUISHERS						
154 125-2000	Fire extinguishers, ABC all purpose type 9.1 kg, installed on masonry or concrete	EA	1 Plumber 1 Tool Set	11.000	13.000	12.000	0.727
54 135	FIRE HOSE AND EQUIPMENT		1 igorset	252/40/93/3		10000000	
54 135-2640	Fire hose rack, swinging, for 38 mm diameter hose, enameled steel, upto 30 m and 38 m lengths of hose	EA	0.125 Foreman 1.000 Sprinkler Installer 1.000 Sprinkler Apprentice 1.000 Tool Set	16.000	18.000	17.000	0.50
54 135-3840	Fire hydrants, wall, with caps, single, flush, polished brass 64 mm x 76 mm	П	1.000 100 001	4.000	5.000	4.500	2.00
54 135-7180	Fire, standpipe connections, wall, w/plugs & chains, single or double, flush, polished			4.000	5.000	4.500	2 00
Salos Sales	brass Fire, standpipe connections, wall, w/plugs & chains, Three way, flush or projecting,	-		4.000	1955	4.500	2.00
154 135-7290	polished brass, 64 mm x (3) x 102 mm		+	4,000	5.000	4.300	2.00
154 145	FIRE PUMPS	T	Tara and a				
154 145-0200	Fire pump with controller, fittings and relief valve, diesel 47 L/s, 345 kPa, 40 HP, 127 mm pump [5]	EA	0.50 Steamfitter Foreman 2.00 Steamfitters 0.50 Electrician 1.00 Steamfitter Apprentice 2.00 Tools Set 1.00 Chain Winch 1.00 Gas Welding MC	0.450	1.000	0.725	71,11
154 145-0700	Fire pump with controller, fittings and relief valve, diesel 126 L/s, 689 kPa, 170 HP, 150	IT		0.250	0.500	0.375	128.00
154 145-0950	mm pump [6"] Fire pump with controller, fittings and relief valve, diesel 221 L/s, 689 kPa, 320 HP, 254			0.180	0.500	0.340	177.77
	mm pump [10"] Fire pump with controller, fittings and relief valve, electric 32 L/s, 345 kPa,			0.550	2.174.00	0.775	58.18
154 145-3200	27 HP, 1770 RPM, 100 mm pump Fire pump with controller, fittings and relief valve, electric 47 L/s, 689 kPa,	-					Sypros
154 145-3400	65 HP, 3550 RPM, 100 mm pump		+	0.500	1.000	0.750	64.00
154 145-5000	Fire Jockey pump 25 mm, 3 Hp, with control		0.125 Foreman 1.000 Sprinkler Installer 1.000 Sprinkler Apprentice 1.000 Tool Set	1.500	2.000	1.750	5.33
154 160	FIRE VALVES	,	1-2-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-	1			
154 160-0080	Fire valve, wheel handle, 2068 kPa, 38 mm	EA	Sprinkler Installer Tool set	9.000	10,000	9.500	0.88
154 160-0090	Fire valve, wheel handle, 2068 kPa, 64 mm	-	1	5,000	6.000	5.500	1.60
154 170	SPRINKLER SYSTEM COMPONENTS		T	1	-		
154 170-2700	Sprinkler heads,piping not included, Dry, Pendent. 13 mm orifice. 20 mm or 25 mm NPT, 279 mm to 324 mm length.	EA	1 Sprinkler Installer 1 Tool set	12.000	14.000	13.000	0.66
154 170-2720	Sprinkler heads, piping not included, Dry, Pendent, 13 mm orifice, 20 mm or 25 mm NPT, 381 mm to 425 mm length	77		11.000	13.000	12.000	0.72
154 170-2730	Sprinkler heads, piping not included, Dry, Pendent, 13 mm orifice, 20 mm or 25 mm NPT, 432 mm to 476 mm length	EA	1 Sprinkler Installer 1 Tool set	11.000	13.000	12.000	0.73
154 170-3600	The state of the s	T		10.000	12.000	11.000	0.80
154 170-3700	Sprinkler, no piping, Standard spray, pendant or upright, brass 330 to 415 K,			13.000	15.000	14.000	0.6
154 170-4520	13 mm NPT, 13 mm orifice Sprinkler head, no piping. Standard spray, sidewall, horizontal, brass 330 to 415 K, 13 mm NPT, 13 mm orifice	Ħ		13.000	15.000	14 900	0.3
154 170-4820	Sprinkler head, no piping. Standard spray, recessed pendent, horizontal, brass 330 to	1		8 000	9.000	8.500	1.0
annia wa wa	415 K, 13 mm NPT, 13 mm orifice Valves, check, swing, C.I. body, brass fittings, auto, ball drip 102 mm size	\parallel	0.125 Foreman 1.000 Sprinkler Installer 1.000 Sprinkler Apprentice	210		2000	4
		++	1.000 Tool Set				****
154 170-6820	Valves, check, wafer, butterfly type, C.L body, bronze fittings, 102 mm size	1		3.00	3.000	3.000	2.6
154 170-7040	Valve, deluge, assembly, incl. trim, pressure, operated relief, emergency release, gauges, 50 mm size			1.75	2.000	1.875	4.5

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CODE	ITEM DESCRIPTION	UNIT	STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
154 170-7060	Valve, deluge, assembly, incl. trim, pressure, operated relief, emergency release, gauges, 76 mm size			1.350	2.000	1.675	5.92
155	HEATING						
155 100	BOILERS						
155 105	BOILERS, GENERAL Prices do not include flue piping, elect, wring, gas or oil piping, boiler base, pad, or taintiless unless noted boiler W: 10 KW = 34 ths/steamvh/ = 33,475 BTUfr/. To convert SFR to BTU rating: Hot water, 150 x SFR; Forced hot water, 180 x SFR; steam, 240 x SFR.						
155 110	BOILERS ELECTRIC		***************************************				
155 110-1160	Steam boiler, Electric fired, including standard controls and trim 60 kW	EA	0.125 Foreman 1.000 Steamfitter 1.000 Steamfitter Apprendice 1.000 Electrician 1.000 Electrician 0.250 Gas Welding Mic 0.250 Chain Winch 1.000 Tool Set	0.750	1.000	0.875	16.000
155 110-1280	Steam boiler, Electric fired, including standard controls and trim 210 kW			0.380	0.500	0.440	31,579
155 110-1380	Steam boiler, Electric fired, including standard controls and trim 510 kW		0.500 Mech. Foreman 2.000 Steamfilter 1.000 Electrician 0.250 Equipment operator 1.000 Steamfilter Apprentice 0.250 Gas Weiding MC 0.250 Crane 11 ton 1.000 Tools Set	0.250	0.500	0.375	48.000
55 110-1480	Steam boiler, Electric fired, including, standard controls and trim 1080 kW			0.200	0.500	0.350	60.000
	Boilers, hot water, electric fired, including standard controls & trim 60 kW		0.125 Foreman 1.000 Steamfitter 1.000 Steamfitter Apprentice 1.000 Electrician 0.250 Gas welding MiC 0.250 Chain Winch 1.000 Tool Set	0.900	1.000	0.950	13.333
55 110-2220	Boilers, hot water, electric fired, including standard controls & trim 240 kW			0.450	1.000	0.725	26.667
55 110-2320	Boilers, hot water, electric fired, including standard controls & trim 480 kW		0.500 Mech. Foreman 2.000 Steamfilter 1.000 Electrician 0.250 Equipment Operator 1.000 Steamfilter Apprentice 0.250 Gas welding M/C 0.250 Crane 11 ton 1.000 Tool Set	0.400	1.000	0.700	30.000
55 115	BOILERS, GAS FIRED	V	1				
55 115-2000	Steam boiler, Gas fired, standard control, cast iron, with insulated jacket, gross output 24 kW	EA	0.500 Mech. Foreman 2.000 Steamfilter 0.250 Electrician 0.250 Equipment Operator 1.000 Steamfilter Apprentice 0.250 Gas welding M/C 0.250 Crane 11 ton 1.000 Tool Set	1.100	1.000	1.050	10.909
55 115-2240	Steam boiler, Gas fired, standard control, cast iron, with insulated jacket, gross output 224 kW			0.350	1.000	0.675	34.286
55 115-2320	Steam boiler, Gas fired, standard control, cast iron, with insulated jacket, gross output			0.220	0.500	0.360	54.545
55 115-3140	550 kW Hot water, boiler, Gas fired, standard controls, cast iron, with insulated jacket, gross			0.600	1.000	0.800	20.000
55 115-3380	output 94 kW Hot water, boiler, Gas fired, standard controls, cast iron, with insulated jacket, gross	-	1	0.240	0.500	0.370	50.000
00 110-0000	output 960 kW Hot water, boiler, Gas fired, standard controls, cast iron, with insulated jacket, gross	+		13004.51	Simils	7613/154	
33 113-3460	output 1788 kW Steam boiler, Gas fired, standard controls, steel, with insulated jacket, gross output	-	-	0.100	0.500	0.300	120.000
33 113-3300	422 kW, including burner	-		0.360	0.500	0.430	33.333
55 115-5580	Steam boiler, Gas fired, standard controls, steel, with insulated jacket, gross output 900 kW, including burner	+	1	0.200	0.500	0.350	60.000
55 115-6240	Hot water, boiler, Gas fired, standard controls, steel, with insulated jacket, gross output 280 kW, including burner & one zone valve:	EA	0.500 Mech. Foreman 2.000 Steamfitter 0.250 Electrician 0.250 Equipment Operator 1.000 Steamfitter Apprentice 0.250 Gas wedding MC 0.250 Crane 11 ton 1.000 Tool Set	0.460	1.000	0.730	26.087
	Hot water, boiler, Gas fired, standard controls, steel, with insulated jacket,			0.160	0.500	0.330	75.000

CSI	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
	Steam boiler, Cil fired, standard controls, burner, C.I. with insulated jacket gross output 61 kW	EA	0.500 Mech Foreman 2.000 Steamfilter 0.250 Bectrician 0.250 Equip Operator 1.000 Steamfilter Apparatice 0.250 Gas Welding MiC 0.250 Gase 11 Ion 1.000 Tool Set	0,750	1,000	0.875	16.000
	Steam boiler, Oil fired, standard controls, burner, C.I. with insulated jacket gross output 318 kW			0.350	0.500	0.425	34.286
55 120,2280	Steam boiler, Oil fired, standard controls, burner, C.I. with insulated jacket gross output 880 kW			0.200	0.500	0.350	60.000
EE 120,2280	Steam boiler, Oil fired, standard controls, burner, C.I. with insulated jacket gross output 1618 kW			0.110	0.500	0.305	109.09
55 120,6190	Steam boiler, Oil fired, standard controls, burner, Steel with insulated jacket gross output 295 kW			0.350	0.500	0.425	34.28
EE 400 6000	Steam boiler, Oil fired, standard controls, burner, Steel, with insulated jacket gross			0.180	0.500	0.340	66.66
55 120,7200	output 700 kW Hot water boiler, Oil fired, standard controls, burner, Steel with insulated jacket gross			0.450	1,000	0.725	26.66
	output 246 kW Hot water boiler, Oil fired, standard controls, burner, Steel with insulated jacket gross	-		RELEASED.		345 51951.3	
	output 490 kW Hot water boiler, Oil fired, standard controls, burner, Steel with insulated jacket gross	+		0.280	0.500	0.390	42.85
155 120-7320	output 920 kW	<u>↓</u>	<u>.</u>	0.140	0,500	0.320	85.71
155 150	SWIMMING POOL HEATERS Not including wiring, external	piping	base or pad				
155 150-0060	Pool heaters, Gas fired, gross output, 15 kW	EA	0.500 Mech, Foreman 2.000 Steamfilter 0.250 Equip, Operator 1.000 Steamfilter Apprentice 0.250 Equip, Operator 1.000 Steamfilter Apprentice 0.250 Gas Welding M/C 0.250 Crare 11 ton 1.000 Tool Set	3.250	4.000	3.625	3.69
55 150-0200	Pool heaters, Gas fired, gross output, 50 kW			1.000	1,000	1.000	12.00
55 150-0400	Pool heaters, Gas fired, gross output, 470 kW			0.150	0.500	0.325	80.00
155 150-1500	Pool heater, Oil fired, gross output 470 kW		1	0.150	0.500	0.325	80.00
155 150-2000	Pool heater, Electric, 12 kW, 18 CUM pool		0.500 Mech Foreman 2.000 Steamfilter 1.000 Electrician 0.250 Equip. Operator 1.000 Steamfilter Apprentice 0.250 Gas Welding M/C 0.250 Crane 11 Ion 1.000 Tool Set	3,500	4.000	3.750	3.42
155 150-2020	Pool heater, Electric, 15 kW, 27 CUM pool	+		3.200	4.000	3.600	3.75
155 150-2040	Pool heater, Electric, 24 kW, 36 CUM pool	\Box		3.000	3.000	3 000	4.00
155 150-2100	Pool heater, Electric, 55 kW, 91 CUM pool	1	1	1.500	2.000	1.750	8.00
155 200	BOILER ACCESSORIES	ide ===filitive=		***			
155 260	INDUCED DRAFT FANS	,					
155 260-1900	Draft fan, hot gas, 588K, variable pitch pulley and motor 300 mm diam, inlet 3/4 HP, 3 phase, 1.4 CUM/s	EA	0.125 Foreman 1.000 Sheet metal worker 0.250 Electrician 1.000 Sheet metal apprentice 1.000 Tool Set	3.000	3.000	3.000	2.66
155 260-1980	Draft fan, hot gas, 588K, variable pitch pulley and motor 600 mm diam. inlet 7.5 HP, 3 phase, 8.4 CUM/s	55%		0.600	1.000	0.800	13.33
155 400	WARM AIR SYSTEMS						
155 401	DUCT FURNACES						
155 401-0100	Duct furnace with burner, control, stainless steel, heat exchanger, gas fired electric ignition, indoor type 35 kW output	EA	0.125 Foreman 1.000 Sheet metal worker 0.250 Electrician 1.000 Sheet metal apprentice 1.000 Tool Set	3.000	3.000	3.000	2 66
155 401-0140	Duct furnace with burner, control, stainless steel, heat exchanger, gas fired electric ignition, indoor type 70 kW output			2.000	2.000	2.000	4.00
155 401-0180	Duct furnace with burner, control, stainless steel, heat exchanger, gas fired electric ignition, indoor type 94 kW output			1.400	2.000	1 700	5.7
155 401-1180	Duct fireace with human control stainless steal heat exchanger has fired	EA	0 125 Foreman 1,000 Sheet metal worker 0 250 Electrician 1,000 Sheet metal apprentice	1.25	1.000	1,173	6.1

CSI	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
155 408-0100	Duct heater, electric, finned tabular insert 533 K, 200 mm wide x 150 mm high, 4.0 kW	EA	0.125 Foreman 1.000 Sheet metal worker 0.250 Electrician 1.000 Sheet metal apprentice 1.000 Tools Set	12.000	14.000	13.000	0.667
155 408-0120	Duct heater, electric, finned tabular insert 533 K, 200 mm wide x 300 mm high, 8.0 kW			11.000	13.000	12.000	0.727
155 408-0160	Duct heater, electric, finned tabular insert 533 K, 200 mm wide x 600 mm high, 16.0 kW			10.000	12.000	11.000	0.800
155 408-0180	Duct heater, electric, finned tabular insert 533 K, 200 mm wide x 760 mm high, 20.0 kW			9.000	10.000	9.500	0.889
155 408-0760	Duct heater, electric, finned tabular insert 533 K, 600 mm wide x 600 mm high, 72 kW	1		7.000	8.000	7.500	1,143
155 420	FURNACES						
155 420-1020	Furnace, electric, standard control, no rough in, electricl heat staging, 220 V, 3 kW	EA	0.125 Foreman 1.000 Sheet metal worker 0.250 Electrician 1.000 Sheet metal apprentice 1.000 Tool Set	4.000	5,000	4.500	2.000
155 420-1100	Furnace, electric, standard control, no rough in, electric heat staging, 220 V,10 kW			3.500	4.000	3.750	2.286
155 420-3020	Furnace, gas, standard control, no rough in or flue piping, direct drive models 13 kW output			3.000	3.000	3.000	2.667
155 420-3060	Furnace, gas, standard control, no rough in or flue piping, direct drive models 22 kW output			2.800	3.000	2.900	2.857
155 420-6020	Furnace, oil, standard control, no rough in or flue piping, atomizing gun type burner, 16 kW output			2.800	3.000	2.900	2.857
155 420-6080	Furnace, oil, standard control, no rough in or flue piping, atomizing gun type burner, 45			2,400	3.000	2,700	3.333
155 440	KW output HEATING & VENTILATING UNITS			L		-112-72-01-0	ONE-STATE
155 440-0080	Heating and ventilating unit, classroom type including filter, heating/cooling coils, and standard control, 0.36 CUM/s, 7 kW cooling	EA	0.500 Mech. Foreman 2.000 Steamfitter 0.250 Electrician 0.250 Equipment Operator 1.000 Steamfitter Apprentice 0.250 Gas welding M/C 0.250 Crane 11 ton 1.000 Tool Set	2.000	2.000	2.000	6.000
155 440-0140	Heating and ventilating unit, classroom type including filter, heating/cooling coils, and standard control, 0.7 CUM/s, 14 kW cooling	91		0.900	1.000	0.950	13.333
155 471	SOLAR ENERGY		I and the second				
155 471-0540	Hot water, solar heating, standard low temperature package, 1 collector, circulator, fittings, 246 L tank, not including piping or fixtures connection.	EA	0.125 Plumber Foreman 1.000 Plumber 1.000 Plumber Apprentice 1.000 Tools Set	0.350	0.500	0.425	22.857
155 471-0620	Hot water, solar heating, standard low temperature package, 1 collector, circulator, fittings, 450 L tank, not including piping or fixtures connection.	*	Э	0.300	0.500	0.400	26.667
155 600	HEATING SYSTEM ACCESSORIES		-	1			
155 601	HEAT EXCHANGERS						a la composition de
155 601-0120	Heat exchangers, shell & tube type, 4 pass, 19 mm outside diam., copper tubes, Cast iron, heads, Cast iron tube sheet, steel shell, hot water 277 K to 355 K, by steam at 69 kPa, 0.5 L/s	EA	0.125 Foreman 2.000 Steamfitter 0.125 Equip Operator 1.000 Steamfitter apprentice 0.250 Gas welding M/o 0.125 Crane 11 ton 2.000 Tools set	9.000	10.000	9.500	2.111
155 601-0160	Heat exchangers, shell & tube type, 4 pass, 19 mm outside diam., copper tubes, Cast iron, heads, Cast iron tube sheet, steel shell, hot water 277 K to 355 K, by steam at 69 kPa, 2.5 L/s			6.000	7.000	6.500	3.167
155 601-0220	Heat exchangers, shell & tube type, 4 pass, 19 mm outside diam., copper tubes, Cast iron, heads, Cast iron tube sheet, steel shell, hot water 277 K to 355 K, by steam at 69 kPa, 7.6 L/s			1.250	1.000	1.125	15.200
	Heat exchangers, shell & tube type, 4 pass, 19 mm outside diam., copper tubes, Cast iron, heads, Cast iron tube sheet, steel shell, hot water 277 K to 355 K, by water at 366 K, 0.44 L/s			9.000	10.000	9.500	2.111
155 601-1060	Heat exchangers, shell & tube type, 4 pass, 19 mm outside diam., copper tubes, Cast iron, heads, Cast iron tube sheet, steel shell, hot water 277 K to 355 K, by water at 366 K, 2.15 L/s			6.000	7.000	6.500	3.167
155 601-1100	Heat exchangers, shell & tube type, 4 pass, 19 mm outside diam., copper tubes, Cast iron, heads, Cast iron tube sheet, steel shell, hot water 277 K to 355 K, by water at 366 K, 4.7 L/s	ļ		2.250	3.000	2.625	B.444
155 610	HEAT TRANSFER PACKAGES Complete, Control	s					
155 610-1020	Heat transfer package, hot water, 355 K enter, 366 K leaving, 103 kPa steam, one pump system, 2.2 L/s	EA	0.125 Foreman 2.000 Steamfitter 0.125 Equip Operator 1.000 Steamfitter apprentice 0.250 Gas welding M/c 0.125 Crane 11 ton 2.000 Tools set	0.650	1,000	0.825	29.23

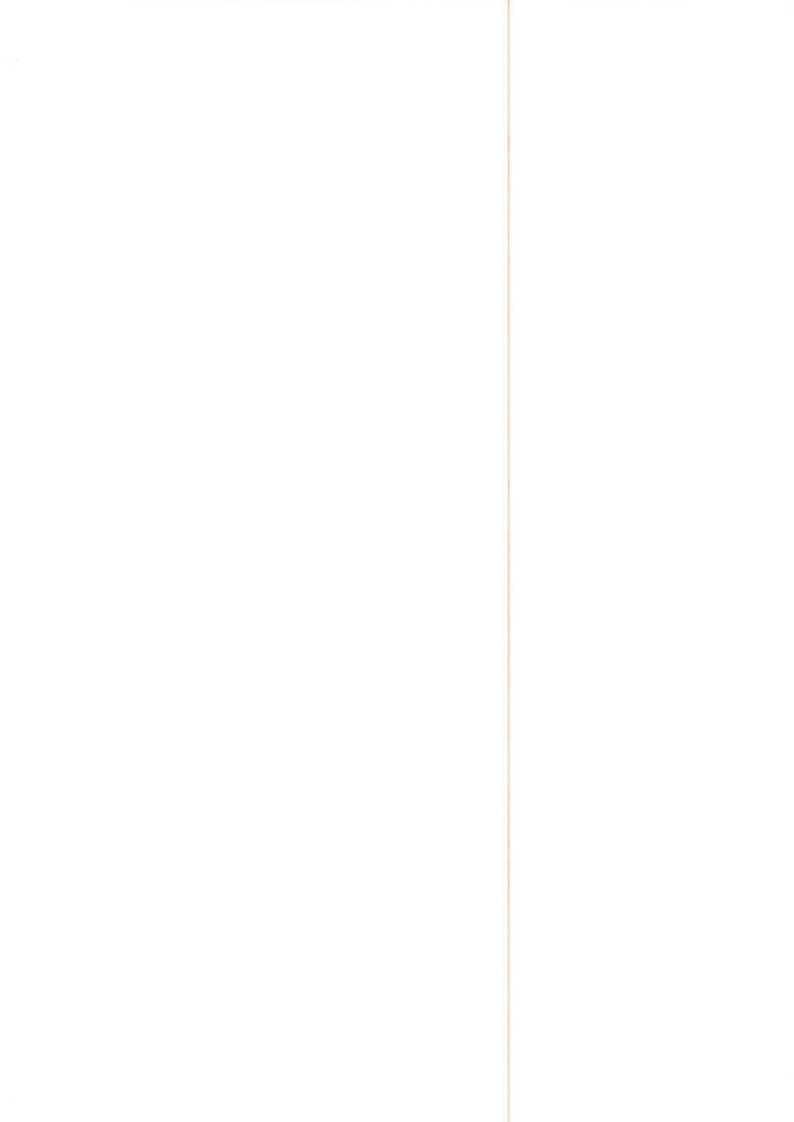
CSI CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
55 610-1060	Heat transfer package, hot water, 355 K enter, 366 K leaving, 103 kPa steam, one pump system. 8.2 Us			0.500	1.000	0.750	38.000
55 610-1100	Heat transfer package, hot water, 355 K enter, 366 K leaving, 103 kPa steam, one pump			0.250	0.500	0.375	76,000
55 630	system, 34.7 L/s HYDRONIC HEATING	-					
55 630-1200	Hydronic heating, radiation panel, baseboard, C.I., fin tube, wall hung with damper, 32 mm copper tube, 100 mm alum, fin, including supports	LM	0.125 Foreman 2.000 Steamfilter 9.125 Equip Operator 1.000 Steamfilter apprintice 0.250 Gas welding Mic 0.125 Crane 11 ton	18.000	21.000	19.500	1.058
55 630-1250	Hydronic heating, radiation panel, baseboard, C.I., fin tube, wall hung with damper, 32 mm steel tube, 100 mm steel fin, including supports.	e	2.000 Tools set	16.000	18.000	17.000	1.188
55 630-3000	Radiators, cast iron, free standing or wall hung, 6 tube, 635 mm high	SECTION		140.000	161.000	150,500	0.136
155 640	HUMIDIFIERS		I	1			
55 640-0540	Humidifler, steam, room or duct, filter, regulators, auto. controls, 220 V, 5 kg/hr	EA	0.125 Foreman 1.000 Steamfilter 1.000 Steamfilter apprentice 0.250 Gaswelding M/c 1.000 Tools set	5.000	6.000	5.500	2.000
155 640-0580	Humidifier, steam, room or duct, filter, regulators, auto. controls, 220 V, 15 kg/hir			3.000	3.000	3.000	3.333
155 640-0620	Humidifier, steam, room or duct, filter, regulators, auto. controls, 220 V, 45 kg/hr			2.500	3.000	2.750	4.000
155 651	INSULATION						
155 651-1020	Insulation, Boiler, 38 mm calcium silicate, 13 mm cement finish, 50 mm fiberglass	SQM	0.125 Labor Foreman 1.000 Asbestos Worker 1.000 Asbestos Apprentice 1.000 Tools set	6.000	7.000	6.500	1.333
155 651-3000	Insulaton, Duct, blanket type, fiberglass, flexible, fire resistant liner, black coating one side 13 mm thick, 0.9 kg density			30.000	35.000	32.500	0.26
155 651-3060	Insulation, Duct, blanket type, fiberglass, flexible, fire resistant liner, black coating one side 25 mm thick, 0.68 kg density			27.000	31.000	29.000	0.29
155 651-3070	Insulaton, Duct, blanket type, fiberglass, flexible, fire resistant liner, black coating one side 38 mm thick, 0.68 kg density			25 000	29.000	27.000	0.32
155 651-3080	Insulaton, Duct, blanket type, fiberglass, flexible, fire resistant liner, black			22.000	25.000	23.500	0.36
155 651-3520	coating one side 50 mm thick, 0.68 kg density Insulating, Duct, board type fiberglass, 1.36 kg. density, fire resistant, 1 side, 25 mm thick			12.000	14.000	13.000	0.66
155 651-3540	Incidating Duct hoard time fiberglass 1.26 kg density fire resistant 1 side			10.000	12.000	11.000	0.80
155 651-3560	Inculating Duct board time fiberglass 1.36 kg density fire resistant 1 side			9.000	10.000	9.500	0.88
155 651-6840	Insulating, Pipe, fiberglass covering with service jacket 25 mm wall, 13 mm	LM		60.000	69.000	64.500	0.13
155 651-6870	Iron pipe size Insulating, Pipe, fiberglass covering with service jacket 25 mm wall, 25 mm			57.000	66.000	61.500	0.14
155 651-6900	iron pipe size insulating, Pipe, fiberglass covering with service jacket 25 mm wall, 50 mm	\vdash		52.000	60.000	56.000	0.15
155 651-6920	Insulating Pine tiheraless covering with service tacket 25 mm wall. 76 mm			46.000		49.500	0.17
155 651-6940	Insulating Pine Theralass covering with service tacket 25 mm wall 100 mm	\vdash	 	40.000	-	43.000	0.20
W14000 SHOULD WALKE	legulating Pine thoraless counting with convincing toket 50 mm well 150 mm	++-	 	1		27.000	0.33
155 651-7440	Insulating Pine fiberglass covering with service lacket 50 mm wall 200 mm	\vdash		25.000		OSCILLADAY	3070
155 651-7460	iron pipe size Insulating Pipe, fiberglass covering with service jacket 50 mm wall, 250 mm	-		21.000	-	22.500	0.38
155 651-7480	iron pipe size	-		18.000	10/1/2007	19.500	0.4-
155 651-7490	iron pipe size	1		16.000	1	17.000	0.50
contraction and on	Insulating, Pipe with flexible Rubber tubing, 10 mm wall. 6 mm iron pipe size	1-1-	 	42.000	W. W	45.000	0.1
	Dinsulating. Pipe with flexible Rubber tubing, 10 mm wall, 13 mm iron pipe size	+		40.000		43.000	0.2
material and re-mater	Dinsulating Pipe with flexible Rubber tubing 10 mm wall, 20 mm iron pipe size	+-		38.000		43.000 41.000	0.2
	Dinsulating, Pipe with flexible Rubber tubing, 10 mm wall, 25 mm iron pipe size Dinsulating, Pipe with flexible Rubber tubing, 10 mm wall, 38 mm iron pipe size	++	 	38.00		41.000	02
Maria Maria Maria	D Insulating Pipe with flexible Rubber tubing 10 mm wall, 36 mm iron pipe size	++	 	32.00	1	34.500	0.2
	D Insulating Pipe with flexible Rubber tubing, 13 mm wall, 38 mm iron pipe size	++-	 	30.00		32.500	02
	0 Insulating Pipe with flexible Rubber tubing, 13 mm wall, 50 mm iron pipe size	++-		29.00	+	31.000	
oraci elisati sawas	D Insulating Pipe with flexible Rubber tubing, 13 mm wall, 76 mm iron pipe size	++	1	28.00	30 mm 20 mm	30.000	
	Insulating, Pipe with flexible Rubber tubing, 20 mm wall, 6 mm iron pipe size		-	30.00	+	32.500	-
C-10 17 16 20 - 1 1 16 1 1 1 1	0 Insulating. Pipe with flexible Rubber tubing, 20 mm wall, 25 mm iron pipe size	+	+	29.00		31.000	

CSI			CREW			D.O.	AVRG.
CODE	ITEM DESCRIPTION	UNIT	STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	E. H.
155 651-8400	Insulating, Pipe with flexible Rubber tubing, 20 mm wall, 76 mm iron pipe size	LM	0.125 Labor Foreman 1.000 Asbestos Worker 1.000 Asbestos Apprentice 1.000 Tools set	28.000	32.000	30.000	0.28
155 671	TANKS Fiberglass and steel tanks, single or double wall storage, see Div 132-15						
155 671-2020	Steel tank, liquid expansion, painted, 20 galon capcity	EA	0.125 Foreman 1.000 Steamfitter 1.000 Steamfitter apprentice 0.250 Gas welding Mic 1.000 Tools set	12.000	14.000	13.000	0.83
155 671-2120	Steel tank, liquid expansion, painted, 85 galon capcity			4.000	5.000	4.500	2.500
155 671-3040	Steel tank, liquid expansion, painted, rubber diaphragm, 50 galon capcity			4.000	5.000	4.500	2.500
155 671-3100	Steel tank, liquid expansion, painted, rubber diaphragm, 150 galon capcity			3.000	3.000	3.000	3.333
155 671-3180	Steel tank, liquid expansion, painted, rubber diaphragm, 500 galon capcity	1		2.000	2.000	2.000	5.000
155 680	VENT CHIMNEY	•	· · · · · · · · · · · · · · · · · · ·	I myana			
155 680-0140	Chimney vent, gas or all fuel types, double wall, galvanized steel or stainless steel, 150 mm diameter	LM	0.125 Labor Foreman 1.000 Sheet Metal Worker 1.000 Sheet Metal Appréntice 1.000 Tools set	14.000	16.000	15,000	0.571
155 680-0180	Chimney vent, gas or all fuel types, double wall, galvanized steel or stainless steel, 200 mm diameter			12.000	14.000	13.000	0.667
155 680-0260	Chimney vent, gas or all fuel types, double wall, galvanized steel or stainless steel, 400 mm diameter			9.000	10.000	9.500	0.889
155 680-0300	Chimney vent, gas or all fuel types, double wall, galvanized steel or stainless steel, 500 mm diameter		0.125 Labor Foremen 2.000 Sheet Metal Worker 1.000 Sheet Metal Apprentica 1.000 Tools set 1.000 Power Tools	8.000	9.000	8.500	2.000
155 680-0480	Chimney vent, gas or all fuel types, double wall, galvanized steel or stainless steel, 965 mm, diameter			6.000	7.000	6.500	2.667
155 680-9020	Vent chimney, prefabricated metal, high temp., (1366 k) steel jacket, acid resistant, refactory lining 11 guage, straight section 1.2 m long, 250 mm diameter			10.000	12.000	11.000	1.600
55 680-9070	Vent chimney, prefabricated metal, high temp., (1366 k) steel jacket, acid resistant, refactory lining 11 guage, straight section 1.2 m long, 914 mm diameter			2.300	3.000	2.650	6.957
155 680-9090	Vent chimney, prefabricated metal, high temp., (1366 k) steel jacket, acid resistant, refactory lining 11 guage, straight section 1.2 m long, 1220 mm diameter			1.750	2.000	1.875	9.143
155 680-9120	Vent chimney accessories; Tee Section; 250mm diameter	EA		3.500	4.000	3.750	4.571
155 680-9140	Vent chimney accessories; Tee Section; 457 mm diameter			1.800	2.000	1.900	8.889
155 680-9170	Vent chimney accessories; Tee Section; 914 mm diameter			0.600	1.000	0.800	26.667
55 680-9220	Vent chimney accessories; Cleanout; 250 mm diameter			2.750	3.000	2.875	5.818
55 680-9320	Vent chimney accessories, Cleanout w/Drain; 254 mm diameter			2.500	3.000	2.750	6.400
55 680-9330	Vent chimney accessories; Elbow, 250 mm diameter			5.000	6.000	5.500	3.200
55 680-9350	Vent chimney accessories; Elbow, 457 mm diameter			3.350	4.000	3.675	4.776
55 680-9380	Vent chimney accessories; Elbow, 914 mm diameter			1.900	2.000	1.950	8.421
55 680-9440	Vent chimney accessories; End cap, 250 mm diameter	1	.	12.000	14.000	13.000	1.333
55 680-9490	Vent chimney accessories; End cap, 914 mm diameter	LM	0.125 Labor Foreman 2.000 Sheet Metal Worker 1.000 Sheet Metal Apprentica 1.000 Tools set 1.000 Power Tools	4.000	5.000	4.500	4.000
55 680-9630	Vent chimney, prefabricated metal, high temp., (1366k), 26 guage aluminized jacket, straight section 1.2 meter long, 250 mm diameter			3.500	4.000	3.750	4.571
55 680-9630	Vent chimney, prefabricated metal, high temp., (1366 K) 26 guage aluminized jacket, straight section 1.2 meter long, 914 mm diameter			0.700	1.000	0.850	22.85
156	HVAC PIPING SPECIALTIES						
56 200	HEAT / COOL PIPING MISCELLANEOUS						100 - E
56 201	AUTOMATIC AIR VENT						
56 201-0060	Automatic air vent Cast iron body, stainless steel internals, float type 13 mm inlet, 2068 kPa	EA	1 Pipe Fitter 1 Tool set	10.000	12.000	11.000	0.800
56 201-0220	Automatic air vent Cast iron body, stainless steel internals, float type 20 mm inlet, 1724 kPa			8.000	9.000	8.500	1.000
56 201-0340	Automatic air vent Cast iron body, stainless steel internals, float type 38 mm inlet, 1724 kPa			5.000	6.000	5.500	1.600
56 205	AIR CONTROL						
56 205-0040	Air control with stainer 50 mm diameter	EA	0.125 Foreman 1.000 Pipe Fitter 1.000 Pipe Fitter Apprentice	4.500	5.000	4.750	1.77

CSI		and of Faren	CREW			D. O.	AVRG.
CODE	ITEM DESCRIPTION	UNIT	STRUCTURE	D. O. MIN.	D. O. MAX.	AVRG.	E. H.
56 205-0100	Air control with stainer 76 mm diameter			3.000	3,000	3.000	2.66
56 205-0120	Air control with stainer 100 mm diameter			2.500	3.000	2.750	3.20
56 205-0140	Air control with stainer 150 mm diameter		+	2.000	2.000	2,000	4.00
56 225	EXPANSION JOINTS						
56 225-0120	Expansion joint, bellow type neoprene cover, flanged spool, 25 mm diameter	EA	1 Pipe Fitter 1 Tool set	16.000	18.000	17.000	0.50
56 225-0160	Expansion joint, bellow type neoprene cover, flanged spool, 38 mm diameter			13.000	15.000	14.000	0.61
56 225-0180	Expansion joint, bellow type,neoprene cover, flanged spool, 50 mm diameter			10.000	12.000	11.000	0.80
56 225-0200	Expansion joint, bellow type,neoprene cover, flanged spool, 76 mm diameter			9.000	10.000	9.500	0.88
56 235	FLEXIBLE METAL HOSE			-1			
56 235-0160	Flexible metal hose connector, bronze braided, bronze ends, standard length, 20 mm	EA	1 Pipe Fitter	10.000	12.000	11.000	0.80
	diameter x 300 mm Flexible metal hose connector, bronze braided, bronze ends, standard length, 25 mm		1 Tool set 1 Pipe Fitter				
56 235-0180	diameter x 457 mm	EA	t Tool set	8.000	9.000	8.500	1.00
56 235-0220	Flexible metal hose connector, bronze braided, bronze ends, standard length, 50 mm diameter x 457 mm	+		5.000	6.000	5.500	1.60
56 240	HEATING CONTROL VALVES						
56 240-0120	Heat control valve, radiator supply, 20 mm diameter	EA	1 Plumber 1 Tool set	18.000	21.000	19,500	0.44
56 240-0140	Heat control valve, radiator supply, 25 mm diameter			16.000	18.000	17.000	0.50
56 240-0160	Heat control valve, radiator supply, 32 mm diameter	1		12.000	14.000	13.000	0.66
56 260	PRESSURE REGULATOR			-			
56 260-3030	Pressure regulator, steam, high capacity, bronze body, stainless steel trim threaded, 20	EA	1 Plumber	18.000	21.000	19.500	0.44
56 260-3040	mm diameter Pressure regulator, steam, high capacity, bronze body, stainless steel trim threaded, 25	T	1 Tool set	16.000		17.000	0.50
56 260-3080	Pressure regulator, steam, high capacity, bronze body, stainless steel trim threaded, 38	+	 	10.000		11.000	0.80
56 260-3140	Pressure regulator, steam, high capacity, bronze body, stainless steel trim threaded, 76	-		4.000	- Webstack	4.500	2.00
56 260-3540	Pressure regulator, steam, high capacity, flanged connection, iron body 861 kPa W.S.P.		 	2.000	50000	2.000	4.00
156 270	100 mm diameter	*	l	1 2.000	2.000	2,000	4,00
156 270-0100	STEAM CONDENSATE METER	EA	1 Pipe Fitter	44.000	40.000	40.000	0.70
	Section State of the Section Control of the S	EA.	1 Tool set	11.000		12.000	0.72
156 270-0140	Steam condensate meter, 580.4 kg/hr STEAM TRAP		1	5.500	6.000	5.750	1.45
			1 Plumber	1	10000	0.570	
156 272-0050		EA	1 Tool set	9.000	-	9.500	0.88
	Steam trap, cast iron body, threaded inverted bucket 25 mm pipe size		-	7.000	5/42/200	7.500	1.14
and the same of th	Steam trap, cast iron body, threaded inverted bucket 32 mm pipe size	*	1	6.000	7.000	6.500	1.33
156 600	STRAINERS VIVE PROME POOK						
156 608	STRAINERS Y TYPE BRONZE BODY:		1 Plumber	1 0.0024805	Name and a second		
	Strainers, Y type bronze body screwed, 1034 kPa, 10 mm pipe, size	EA	1 Tool set	18.000		19.500	0.44
	Strainers, Y type bronze body screwed, 1034 kPa, 13 mm pipe, size			15,000	-	16.000	0.53
7.500.000.000	Strainers, Y type bronze body screwed, 1034 kPa, 25 mm pipe size			12.000	10,000	13.000	0.66
700670 Q0 7554524W	Strainers, Y type bronze body screwed, 1034 kPa, 50 mm pipe size Strainers, Y type bronze body screwed, 1034 kPa. 76 mm pipe size		0.125 Plumber Foreman 1.000 Plumber 1.000 Plumber Apprentice	12.000		13 000	0.80
156 608-1000	Strainers, Y type bronze body flanged, 1034 kPa, 38 mm pipe size		1 000 Tools Set 1 Plumber	8,000	9.000	8.500	1.00
An order to the court	Strainers, Y type bronze body flanged, 1034 kPa, 50 mm pipe size		1 Tool set	4		6.500	1.33
100 000 1020	Johannes, Type Brutze Body Harges, 1004 At a, 50 Him pipe 5/26		0 125 Plumber Foreman	6.000	7.000	0.500	1.0
56 608-1100	Strainers, Y type bronze body flanged, 1034 kPa, 150 mm pipe size		1 000 Plumber 1 000 Plumber Apprentice 1 000 Tools Set	1.750	2.000	1.875	4.5
56 612	STRAINERS, Y TYPE IRON						
56 612-0100	Strainers, Y type Iron body screwed, 1724 kPa, 13 mm pipe size	EA	1 Plumber 1 Tool set	14.000	16.000	15.000	0.5
156 612-0160	Strainers, Y type iron body screwed, 1724 kPa, 38 mm pipe size			9.000	10.000	9 500	0.8
	Strainers, Y type iron body screwed, 1724 kPa. 76 mm pipe size		0.125 Plumber Foreman 1.000 Plumber 1.000 Plumber Apprentice 1.000 Tools Set	8.000		6.500	
156 612-0240	Strainers, Y type iron body screwed, 1724 kPa. 100 mm pipe size		1 Jour tools det	4.000	5.000	4.500	2.0
	Strainers, Y type iron body flanged, 862 kPa, 50 mm pipe size		1 Plumber	6.000		6.500	1.3

CSI CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
156 612-1100	Strainers, Y type iron body flanged, 862 kPa, 150 mm pipe size		0,125 Plamber Foreman 1,000 Plumber 1,000 Plumber Apprentice 1,000 Tools Set	1,750	2.000	1.875	4.571
157	AIR CONDITIONING / VENTILATING						
157 100	A.C. & VENT. UNITS						
157 125	CENTRAL STATION AIR-HANDLING UNIT						
157 125-1100	Central station AHU, chilled water, modular, capacity at 3.55 m/s face velocity 0.6 CUM/s	EA	0.125 Skilled Foreman 2.000 Steamlitter (HVAC) 0.125 Equip. Operator 0.500 Welder 1.000 Steam Fitter Apprentipe 0.125 Crane 11 ton 0.500 Welder 0.125 Crane 11 ton 0.500 Welding MC 2.000 Standard Tools	2.250	3.000	2.625	9.333
157 125-1300	Central station AHU, chilled water, modular, capacity at 3.55 m/s face velocity 1.5	İΤ		1.400	2.000	1,700	15.000
Onted to the Latine sales	CUM/s Central station AHU, chilled water, modular, capacity at 3.55 m/s face velocity 3.8		 			-	
157 125-1500	CUM/s	•	<u> </u>	1.000	1.000	1.000	21.000
157 125-1700	Central station AHU, chilled water, modular, capacity at 3.55 m/s face velocity 9.44 CUM/s	EA	0.125 Skilled Foreman 2,000 Steamfitter (HVAC) 0.125 Equip. Operator 0.500 Welder 0.500 Electrician 1,000 Steam Fitter Apprentice 0.125 Crane 11 for 0.500 Welding M/C 2,000 Standard Tools	0.500	1.000	0.750	42.000
157 125-1900	Central station AHU, chilled water, modular, capacity at 3.55 m/s face velocity 15.8	IT		0.350	0.500	0.425	60.000
157 125-2100	CUM/s Central station AHU, chilled water, modular, capacity at 3.55 m/s face velocity 29.7	++		0.250	0.500	0.375	84.000
157 125-2195	CUM/s Central station AHU, chilled water, modular, capacity at 3.55 m/s face velocity 15.8	-	 	0.330	0.500	0.415	63.636
	CUM/s, including hot water heating coil For hot water heating coil, add	++-	 	0.530	0.500	0.415	63.636
157 130	COMPUTER ROOM UNITS	<u> </u>	<u> </u>	1			
157 130-1240	Computer room units, air cooled, includes remote condenser but not interconnecting tubin gor refrigerant, 35 kW	EA	0.125 Skilled Foreman 2.000 Steam Fitter (HVAC) 0.125 Equip. Operator 0.500 Welder 0.500 Electrician 1.000 Steam Fitter Apprentice 0.125 Crane 11 Ion 0.500 Welding M/C 2.000 Standard Tools	0.450	1.000	0.725	46 .667
157 130-1360	Computer room units, air cooled, includes remote condenser but not interconnecting tubin gor refrigerant, 80 kW	EA		0.350	0.500	0.425	60.000
157 150	FAN COIL AIR CONDITIONING						
157 150-0100	FCU. cabinet mounted, with controls and filter, chilled water, 1.8 kW cooling	EA	0.125 Skilled Foreman 2.000 Steam Fitter (HVAC) 0.125 Equip. Operator 0.500 Welder 0.500 Welder 0.500 Steam Fitter Apprentice 0.125 Crane 11 ton 0.500 Welding M/C 2.000 Standard Tools	13.000	15.000	14.000	1.615
157 150-0120	FCU, cabinet mounted, with controls and filter, chilled water, 3.5 kW cooling			9.500	11.000	10.250	2.211
157 150-0180	FCU, cabinet mounted, with controls and filter, chilled water, 10.5 kW cooling			6.500	7.000	6.750	3.231
157 150-0200	FCU, cabinet mounted, with controls and filter, chilled water, 35 kW cooling			3.000	3.000	3.000	7.000
157 150-0240	FCU, cabinet mounted, with controls and filter, chilled water, 70 kW cooling			0.900	1.000	0.950	23.333
157 150-1000	FCU, cabinet mounted, with controls and filter, direct expansion, 17.6 kW cooling for use with/air cooled condensing.			5.000	6.000	5.500	4.200
157 150-1060	FCU, cabinet mounted, with controls and filter, direct expansion, 70 kW cooling for use with/air cooled condensing.	П		0.800	1.000	0.900	26.250
157 160	HEAT PUMPS			-			
157 160-1080	Heat pump, air to air, Split system, not including curbs, pads, or ductwork 26 kW cooling, 10 kW heat @ 255 K	EA	0.125 Skilled Foreman 2.00 Steam litter (HVAC) 0.125 Equip Operator 1.000 Electrician 1.000 Steam Filter Apprentice 0.125 Crane 11 ton 2.000 Standard Tools	2.000	2.000	2.000	8.500

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CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
57 180-1120	Heat pump, air to air, Split system, not including curbs, pads, or ductwork 54 kW cooling, 19 kW heat @ 255 K		1	0.280	0.500	0.390	60.714
57 160-1180	Heat pump, air to air, Split system, not including curbs, pads, or ductwork 140 kW			0.110	0.500	0.305	154 545
57 160-1640	cooling 57 kW heat @ 255 K Heat pump, air to air, Single Package, not including curbs, pads, or plenums 26 kW	++		0.650	1.000	0.825	26.154
Walter all the service	cooling, 10 kW heat @ 255 K Heat pump, air to air, Single Package, not including curbs, pads, or plenums 54 kW	++				2313000	(Vice)
57 160-1640	cooling 16 kW heat @ 255 K	1		0.320	0.500	0.410	53 125
	Heat pump, water source to air, single package, 7 kW cooling, 6 kW heat @ 297 K	1		2.500	3.000	2.750	6.800
57 160-2220	Heat pump, water source to air, single package, 17 kW cooling, 8 kW heat @ 297 K	+	<u> </u>	1.250	1.000	1,125	13.600
57 170	PACKAGED TERMINAL AIR CONDITIONER						
57 170-0240	Package terminal air conditioner cabinet, wall sleeve, 3.5 kW cooling 4 kW heat	EA	0.125 Skillod Foreman 2.00 Steam fitter (HVAC) 0.125 Equip Operator 1.000 Electrician 1.000 Steam Fitter Apprentice 0.125 Craine 11 ton 2.000 Standard Tools	6.000	7,000	6.500	2 833
57 170-0260	Package terminal air conditioner cabinet, wall sleeve, 4.4 kW cooling 4 kW heat		27	5.000	6.000	5.500	3.400
57 180	ROOF TOP AIR CONDITIONERS						
157 180-1145	Roof top AC with std. controls, curb, Single zone, 21 kW cooling	EA	0.250 Skillod Foreman 3 000 Steam Fitter (HVAC) 1.000 Welder 1.000 Electrician 0.125 Equip. Operator 2.000 Steam Fitter Apprentice 0.125 Crane 11 ton 1.000 Welsing Machine 3.000 Standard Tools	1.250	1 000	1.125	26.400
57 180-1160	Roof top AC with std. controls, curb, Single zone, 35 kW cooling	TT	T T	0.750	1.000	0.875	44.000
57 180-1200	Roof top AC with std. controls, curb, Single zone, 70 kW cooling			0.450	1.000	0.725	73.333
57 180-1220	Roof top AC with std. controls, curb. Single zone, 105 kW cooling			0.350	0.500	0.425	94.286
	Roof top AC with std. controls, curb, Single zone, 210 kW cooling	11		0.170	0.500	0.335	194.118
157 180-1280	Roof top AC with std. controls, curb, Single zone, 363 kW cooling			0.120	0.500	0.310	275 000
157 180-2120	Roof top AC with std. controls, curb, Multi zone, 70 kW cooling			0.320	0.500	0.410	103.125
57 180-2200	Roof top AC with std. controls, curb, Multi zone,140 kW cooling			0.180	0.500	0.340	183.33
157 180-2280	Roof top AC with std. controls, curb, Multi zone,368 kW cooling	1	1	0 100	0.500	0.300	330.00
157 185	SELF-CONTAINED SINGLE PACKAGE		1	-			
157 185-0220	Self-contained AC package unit, Air cooled, including remote condenser 17.6 kW	EA	0.250 Skilled Foreman 3.000 Steam Fitter (HVAC) 1.000 Welder 1.000 Electrician 0.125 Equip. Operator 2.000 Steam Fitter Apprentic 0.125 Crane 11 for 1.000 Welding Machine 3.000 Standard Tools	1.750	2.000	1.875	18.85
157 185-0240	Self-contained AC package unit, Air cooled, including remote condenser 35 kW			1.25	1.000	1.125	26.40
57 185-0260	Self-contained AC package unit. Air cooled, including remote condenser 70 kW			1,15	0 1.000	1.075	28 69
The Charles of the	Self-contained AC package unit, Air cooled, including remote condenser 105 kW			1.00	1,000	1.000	33 00
				0.55	1.000	0.775	60.00
157 185-028	D Self-contained AC package unit, Air cooled, including remote condenser 210 kW			0.00	-		00.00
157 185-028 157 185-034	Self-contained AC package unit, Air cooled, including remote condenser 210 kW Self-contained AC package unit, Water cooled not including cooling tower 35 kW			1.15	0 1.000	1.075	//D/053
157 185-028 157 185-034 157 185-114	 			+		1.075	33.00
57 185-028 57 185-034 57 185-114 57 185-116	Self-contained AC package unit, Water cooled not including cooling tower 35 kW			1.15	0 1.000	1.000	33.00
57 185-0286 57 185-0346 57 185-1146 57 185-1186	Self-contained AC package unit, Water cooled not including cooling tower 35 kW Self-contained AC package unit, Water cooled not including cooling tower 70 kW			1.15	0 1.000	1.000	28.69 33.00 38.82
157 185-028(157 185-034(157 185-114(157 185-116(157 185-118(157 185-1180	Self-contained AC package unit, Water cooled not including cooling tower 35 kW Self-contained AC package unit, Water cooled not including cooling tower 70 kW Self-contained AC package unit, Water cooled not including cooling tower 105 kW WATER CHILLERS	EA	0.250 Skilled Foreman 3.000 Steam Fitter (HVAC) 1.000 Welder 1.000 Electrician 0.250 Equip Operator 3.000 Steam Fitter Apprentio 0.250 Craine 11.100 1.000 Weiding Machine 3.000 Standard Tools	1.15 1,00 0.85	0 1.000	1,000 0.925	33.00
157 185-028(157 185-034(157 185-114(157 185-116(Self-contained AC package unit, Water cooled not including cooling tower 35 kW Self-contained AC package unit, Water cooled not including cooling tower 70 kW Self-contained AC package unit, Water cooled not including cooling tower 105 kW WATER CHILLERS Water chiller.Centrifugal,liquid chiller Water cooled, not including water tower, packaged hermatic, 200 Ton cooling	EA	3.000 Steam Fitter (HVAC) 1.000 Welder 1.000 Electrician 0.250 Edup Operator 3.000 Steam Fitter Apprendic 0.250 Crane 11 fon 1.000 Welding Machine	1.15 1,00 0.85	0 1,000 0 1,000 5 0,100	1.000 0.925 0.078	33.00 38.82 618.11

CSI	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
157 190-0320	Water chiller, Centrifugal, liquid chiller, Water cooled, not including water tower,	Т		0.025	0.100		1360.00
	packaged hermatic 1000 Ton cooling		1	15100		0.063	I The second
	Water chiller,Reciprocating,packaged with air cooled condenser, 75 Ton cooling			0.220	-	0.360	154.54
	Water chiller, Reciprocating, packaged with air cooled condenser, 100 Ton cooling		ļ	0.180	0.860000	0.340	188.88
	Water chiller, Reciprocating, packaged with air cooled condenser, 125 Ton cooling			0.140	-	0.320	242.85
	Water chiller,Reciprocating,packaged with air cooled condenser, 150 Ton cooling			0.130		0.315	261.53
	Water chiller, Reciprocating, packaged with air cooled condenser, 200 Ton cooling Water chiller, Reciprocating, Water cooled, multi compressor, semi-hermitic			0.090	0.100	0.095	377.77
157 190-1160	tower not included, 100 Ton cooling			0.220	0.500	0.360	154.54
157 190-1200	Water chiller, Reciprocating, Water cooled, multi compressor, semi-hermitic tower not included, 140 Ton cooling			0.160	0.400	0.280	212.50
157 190-1210	Water chiller, Reciprocating, Water cooled, multi compressor, semi-hermitic tower not included, 160 Ton cooling			0.140	0.400	0.270	242.85
157 190-1580	Water chiller, Reciprocating, Water cooled, dual compressor, direct drive, semi-hermitic	T		0.130	0.400	0.265	261.53
	tower not included 150 Ton cooling	+	*	0.100	0.400	0.200	201.50
157 190-1620	Water chiller, Reciprocating, Water cooled, dual compressor, direct drive, semi-hermitic tower not included 200 Ton cooling	EA	250 Skilled Foreman 3.000 Steam Fitter (HVAC) 1.000 Welder 1.000 Electrician 0.250 Equip. Operator 3.000 Steam Fitter Apprentic 2.250 Crane 11 ton 1.000 Welding Machine 3.000 Standard Tools	0.090	0.100	0.095	377.77
157 190-1660	Water chiller, Reciprocating, Water cooled, dual compressor, direct drive, semi-hermitic	T		0.090	0.100	0.095	377.778
157 190-3100	tower not included 225 Ton cooling Water chiller, Packaged, with remote air coolewd condenser 100 ton	+	 	0.160	Gallan.	0.330	212.500
	Water chiller, Packaged,with remote air coolewd condenser 140 ton			0.110		0.356	309.09
157 200	SYSTEM COMPONENTS		<u> </u>	0.110	0.400	0.200	505.05
157 225	CONDENSERS						
157 <mark>225-024</mark> 0	Condenser, air cooled, belt drive, propeller fan, 40 Ton	EA	0.250 Skilled Foreman 3.000 Steam Fitter (HVAC) 1.000 Weider 1.000 Electrician 0.250 Equip Operator 3.000 Steam Fitter Apprentic 0.250 Crane 11 ton 1.000 Welding Machine 3.000 Steandard Tools	0.950	1.000	0.975	35.78
157 225-0280	Condenser, air cooled, belt drive, propeller fan, 60 Ton			0.650	1.000	0.825	52.30
57 225-0400	Condenser, air cooled, belt drive, propeller fan, 100 Ton			0.550	1,000	0.775	61.81
	Condenser, air cooled, belt drive, propeller fan, 157 Ton			0.500	1.000	0.750	68.00
	Condenser, air cooled, belt drive, propeller fan, 235 Ton			0.200	0.500	0.350	170.00
57 225-0700	Condenser, air cooled, belt drive, propeller fan, 314 Ton		6	0.160	0.400	0.280	212.50
157 225-0800	Condenser, air cooled, belt drive, propeller fan, 470 Ton	1	 	0.110	0.400	0.255	309.09
1 - 1 - 1 - 1	Condenser, air cooled, belt drive, propeller fan, 630 Ton			0.095	0.100	0.098	357.89
	Condenser, air cooled, direct drive, propeller fan, 10 Ton			3.500	4.000	3.750	9.71
157 225-1760	Condenser, air cooled, direct drive, propeller fan, 40 Ton		 	1,000	1.000	1.000	34.00
	Condenser, air cooled, direct drive, propeller fan, 76 Ton			0.600	1.000	0.800	56.66
	Condenser, air cooled, direct drive, propeller fan, 105 Ton	1		0.500	1,000	0.750	68.00
157 197	WINDOW UNIT AIR CONDITIONER:		X				
57 197-2000	Window A/C unit thru the wall, 1.5 ton	EA	0.125 Foremen 1.000 Electrician 1.000 Common laborer 1.000 Tools Set	6.000	7.000	6.500	1.33
57 197-2100	Window A/C unit thru the wall, 2 ton			4.000	5.000	4.500	2.00
57 197-2200	Window A/C unit thru the wall, 3 ton	1		4.000	5.000	4.500	2.00
57 240	COOLING TOWERS		**************************************	And the second			101
57 240-0100	Cooling tower, package unit, galv, steel or stainless steel, draw thru, single flow, belt drive 60 Ton	EA	0.250 Skilled Foreman 3.000 Steam Fitter (HVAC) 1.000 Welder 1.000 Electrician 0.250 Equip. Operator 3.000 Steam Fitter Apprentic 0.250 Crane 11 ton 1.000 Welding Machine 3.000 Standard Tools	1.000	1.000	1.000	34.00

CSI	ITEM DESCRIPTION	UNI	Т	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
	Cooling tower, package unit, galv, steel or stainless steel, draw thru, single flow, belt	Т			0.900	1.000	0.950	37.778
	drive 125 Ton Cooling tower, package unit, galvanized steel or stainless steel, induced air, double				0.800	1,000	0.900	42.500
7 240-1500	flow, gear drive, 150 Ton Cooling tower, package unit, galvanized steel or stainless steel, induced air, double	+	4					
7 240-2000	flow, gear drive, 300 Ton				0,700	1,000	0.850	48.57
7 240-2100	Cooling tower, package unit, galvanized steel or stainless steel, induced air, double flow, gear drive, 600 Ton			ļ	0.400	1,000	0.700	85.00
57 250	DUCTWORK Fabricated rectangular, includes fittings, joints, su	рро	rts					
37 250-0110	Duct aluminum alloy, fabricated & installed	KG	. 1	0.125 Labor Foreman 2.000 Sheet Metal Worker 1.000 Sheet Metal Apprentice 1.000 Tools Set 1.000 Power Tools	45.000	52.000	48.500	0.35
57 250-0500	Duct galvanized steel, fabricated & installed				80.000	92.000	86.000	0.20
7 250-1000	Duct stainless steel type 304, under 45 kg				60.000	69.000	64.500	0.26
57 250-1020	Duct stainless steel type, fabricated & installed				80.000	92.000	86.000	0.20
57 250-1500	Round duct, flexible, coated fiberglass 76 mm diameter	LN			165.000	190.000	177.500	0.09
7 250-156 0	Round duct, flexible, coated fiberglass 150 mm diameter	+			115.000	132.000	123.500	0.13
57 250-1600	Round duct, flexible, coated fiberglass 200 mm diameter	LN	•	0 125 Labor Foreman 2,000 Sheet Metal Worker 1,000 Sheet Metal Apprentice 1,000 Tools Set 1,000 Power Tools	85.000	98 000	91.500	0 18
57 250-1640	Round duct, flexible, coated fiberglass 250 mm diameter				65.000	75.000	70.000	0.24
57 250-1660	Round duct, flexible, coated fiberglass 300 mm diameter	1		10.	50.000	58.000	54.000	0.32
57 290	FANS							
57 290-0050	Fan, axial flow, compact, low sound, 64 mm S.P., (3500 CFM), 1.8 CUM/s, 5 HP	E	*	0.125 Foreman 1.000 Sheet Metal Worker 1.000 Sheet Metal Apprentice 0.250 Electrician 1.000 Tools Set	2,800	3.000	2.900	2.85
57 290-0100	Fan, axial flow, compact, low sound, 64 mm S.P., (10500 CFM), 5 CUM/s, 7.5 HP				2.000	2.000	2.000	4.00
57 290-0120	Fan, axial flow, compact, low sound, 64 mm S.P., (15600 CFM), 7.3 CUM/s,10 HP				1.300	1.000	1.150	6.15
57 290-0260	Fan, in-line centrifugal, supply/exhaust booster, aluminum wheel/hub, disconnect switch, 6 mm S.P., (1380 CFM), 0.651 CUM/s, 300 mm dia conn				1.600	2.000	1.800	5.0
57 290-0300	Fan, in-line centrifugal, supply/exhaust booster, aluminum wheel/hub, disconnect				0.850	1.000	0.925	9.4
57 290-0320	switch, 6 mm S.P., (2560 CFM), 1,208 CUM/s, 457 mm diameter connection Fan. in-line centrifugal, supply/exhaust booster, aluminum wheel/hub, disconnect				0.650	1.000	0.825	12.3
	switch, 6 mm S.P., (3480 CFM), 1.643 COW's, 500 mm diameter connection	-	-		12.000	10000	13.000	0.6
57 290-2580	O Ceiling fan, right angle, extra quiet, 3 mm S.P., (885 CFM), 0.418 CUM/s O Ceiling fan, right angle, extra quiet, 3 mm S.P., (2960 CFM), 1.397 CUM/s	+-			9.000		9.500	0.8
	Calling fan paddle blade air circulator 3 speed switch 1067 mm (5000 CFM) 2.36		-		4.500		4.750	1.7
57 290-3020	CUM's high, (3000 CFM), 1.416 CUM's low Ceiling fan, paddle blade air circulator, 3 speed switch, 1321 mm, (6500 CFM), 3.068	+	-	 	-	+		11-11-11-11
157 290-3040	CUM/s high, (4000 CFM), 1.888 CUM/s low				3.20	4.000	3.600	2.5
57 290-4640	Ventilator,roof type, corrosive fume resistant, plastic, centrifugal, V belt drive, motor, 6 mm S.P., (895 CFM - 1/3 HP), 0.422 CUM/s, 248 W				4,00	5.000	4.500	2.0
157 290-4680	Ventilator,roof , corrosive fume resistant, plastic, centrifugal, V belt drive, motor, 6 mm S.P., (2240 CFM, 1 HP) 1.057 CUM/s, 746 W				2.50	3.000	2.750	3.2
157 290-472	Ventilator,roof , corrosive fume resistant, plastic, centrifugal, V belt drive, motor, 6 mm		1		0.80	1.000	0.900	10.0
157 290-614	S.P., (11760 CFM, 5 HP) 5.549 CUM/s, 3.75 KW Fan, propeller exhaust, wall shutter, 6 mm S.P., direct drive two speed, (1000 CFM,1/8				6.00	7.000	6.500	1.3
MANUAL PROPERTY.	HP), 0.4/2 CUM/s, 93 W	+-		 	16.00		17.000	0.5
	Ren, residential, bath exhaust, grille, back draft damper (110 CFM), 0.052 CUM's Reof exhauster, centrifugal, aluminum housing, 300 mm galvanized curb, bird screen.					1	3,750	2.3
157 290-716	back draft damper, 6 mm S.P. direct drive (1450 CFM), 0.684 CUM/s, 0.109 SQM	-	_		3.50		2000000	
157 290-718	back draft damper, 6 mm 5 P. direct drive (2050 CFM), 0.988 COM/S, 0.165 SQM				3.25	0 4.000	3.625	2.4
157 290-726	Roof exhauster, centrifugal, aluminum housing, 305 mm galvanized curb, bird screen, back draft damper, 6 mm S.P. V-belt drive (8525 CFM), 4.024 CUM/s, 0.506 SQM			1	2.50	0 3.000	2.750	3 2
157 400	ACCESSORIES							
157 401	AIR FILTERS							
	Chemical media filter, Industrial air fume & odor scrubber unit with pump & motor corrosion resistant. PVC construction, single pack, horizontal 12000 CFM.		ΕA	0.125 Labor Foreman 2.000 Sheet Metal Worker 1.000 Sheet Metal Apprentice 1.000 Tools Set	4.00	0 5.000	4.500	4.
157 401-119	Thoras Contosion resistant. PVO Construction, single pack, nonzonia record or in			1.000 Power Tools				

CSI	ITEM DESCRIPTION	UNIT	CREW	D. O. MIN	D. O. MAX.	D. O.	AVRG.
157 401-1370	Chemical media filter, industrial air fume & odor scrubber unit with pump &	1	STRUCTURE	-		AVRG.	E. H.
157 401-1410	motor corrosion resistant, PVC construction, double pack, horizontal 12000 CFM. Chemical media filter, industrial air fume & odor scrubber unit with pump &	++	-	3.250	4.000	3.625	4.92
157 401-1600	motor corrosion resistant, PVC construction.double pack, horizontal 30000 CFM. Chemical media filter, industrial air fume & odor scrubber unit with pump &			1.250	1.000	1.125	12.80
157 401-1750	motor corrosion resistant, PVC construction, single pack, vertical 24000 CFM. Chemical media filter, industrial air fume & odor scrubber unit with pump &			2.000	2.000	2.000	8.00
1E7 404 0450	motor corrosion resistant, PVC construction double pack, vertical 24000 CFM		0.125 Foreman	1.850	2.000	1.925	8.6-
	Air filter, Electronic air cleaner, self-contained, 0.236 CUM/s, 1000 CFM		1.000 Sheet Metal worker 1.000 Tools Set	2.000	2.000	2.000	4.00
A STATE OF THE PARTY OF THE PAR	Air filter, electronic air cleaner, self-contained, 0.472 CUM/s, 1400 CFM			1.800	2.000	1.900	4.4
	Air filter, electronic air cleaner, self-contained, 0.566 CUM/s, 2000 CFM	1	J	1.650	2.000	1.825	4.84
157 450	DIFFUSERS Aluminum, opposed blade damper unless noted						
157 450-0500	Diffuser linear, ceiling/sidewall, perforated, 600 mm x 600 mm, panel size 150 mm x 150 mm	EA	0.125 Foreman 1.000 Sheet Metal worker 1.000 Tools Set	12.000	14.000	13.000	0.60
157 450-0520	Diffuser linear, ceiling/sidewall, perforated, 600 mm x 600 mm, panel size 200 mm x 200 mm	Ħ	1,000 100is Set	11.000	13.000	12.000	0.72
157 450-0540	Diffuser linear, ceiling/sidewall, perforated, 600 mm x 600 mm, panel size 250 mm x 250 mm			10.000	12.000	11.000	0.80
157 450-0600	Diffuser linear, ceiling/sidewall, perforated, 600 mm x 600 mm, panel size 457 mm x 457 mm			8.000	9.000	8.500	1.00
157 450-1020	Diffuser, rectangular, 1 to 4 way blow, 300 mm x 150 mm	11		11.000	20000000	10000000	480%
	Diffuser, rectangular, 1 to 4 way blow, 610 mm x 300 mm	-		8.000	13.000	12.000	0.72
	Diffuser, rectangular, 1 to 4 way blow, 533 mm x 533 mm	. ¥ EA	0.125 Foreman		9.000	8.500	1.00
	Diffuser, round, butterfly damper, 200 mm diameter [8"]		1.000 Sheet Metal worker 1.000 Tools Set	6.000	7.000	6.500	1.33
	Diffuser, round, butterfly damper, 356 mm diameter [14"]	-	-	12.000	14.000	13.000	0.66
	Diffuser, T bar mount, 600 mm x 600 mm lay-in frame, 380 mm x 380 mm			8.000	9.000	8.500	1.00
				9.000	10.000	9.500	0.88
157 460	Diffuser, T bar mount, 600 mm x 600 mm lay-in frame, 457 mm x 457 mm GRILLES		1	8.000	9.000	8.500	1.00
			To and the	1			
157 460-1080	Grille, aluminum, air return, 400 mm x 200 mm	EA	0.125 Foreman 1.000 Sheet Metal worker 1.000 Tools Set	16.000	18.000	17.000	0.50
	Grille, aluminum, air return, 600 mm x 300 mm			13.000	15.000	14.000	0.61
57 460-1280	Grille, aluminum, air return, 910 mm x 600 mm		1)/4	11.000	13.000	12.000	0.72
57 470	REGISTERS	-				2503400	0.050
57 470-1020	Register, for air supply, ceiling/wall, opposing blade damper, anodized aluminum one or two way deflection, adj. curved face bars 200 mm x 100 mm	EA	0.125 Foreman 1.000 Sheet Metal worker 1.000 Tools Set	20.000	23.000	21.500	0.40
57 470-1240	Register, for air supply, ceiling/wall, opposing blade damper, anodized aluminum one or two way deflection, adj. curved face bars 508 mm x 150 mm			13.000	15.000	14.000	0.61
57 470-1350	Register, for air supply, ceiling/wall, opposing blade damper, anodized aluminum one or two way deflection, adj. curved face bars 610 mm x 457 mm			9.000	10.000	9.500	0.88
	Register, for air supply, floor, opposing blade damper, anodized aluminum one or two way deflection, adj. curved face bars 250 mm x 250 mm			15.000	17.000	16.000	0.53
57 470-4240	Register, for air supply, floor, opposing blade damper, anodized aluminum one or two way deflection, adj. curved face bars 356 mm x 508 mm			11.000	13.000	12.000	0.72
	DUCT ACCESSORIES	•	!	1	70.000	12.000	0.12
57 480-0050	Duct accessories, air extractors, 300 mm x 100 mm	EA	0.125 Foreman 1.000 Sheet Metal worker	18.000	21.000	19.500	0.44
57 480-0200	Duct accessories, air extractors, 508 mm x 200 mm		1.000 Tools Set	12.000	14.000	13.000	0.66
The second secon	Duct accessories, access door, insulated, 300 mm x 300 mm			7.000	8.000	7.500	1.14
	Duct accessories, fire damper, curtain type, vertical, 406 mm x 356 mm			13.000	15.000	14.000	0.61
	Duct accessories, fire damper, curtain type, vertical, 610 mm x 508 mm			6.000	7.000	6.500	5074.246
ALCOHOL STATE OF THE STATE OF T	Duct accessories, multi-blade dampers, opposed blade, 300 mm x 300 mm			16.000	18.000	17.000	1.333
	Duct accessories, multi-blade dampers, opposed blade, 610 mm x 610 mm			6.000			0.500
	Ouct accessories, multi-blade dampers, opposed blade, 1219 mm x 910 mm	EA	0.125 Labor Foremen 2.000 Sheet Metal Worker 1.000 Sheet Metal Apprentice 1.000 Tools Set 1.000 Power Tools	8.000	9.000	8.500	2.000
	Ouct accessories, splitter damper assembly, self-locking, 910 mm rod	T	0.125 Foreman 1.000 Sheet Metal worker	16.000	18.000	17.000	0.500
7 480-7020	and the state of t		1.000 Tools Set	10.000	10.000	120 (2007) (10	2000

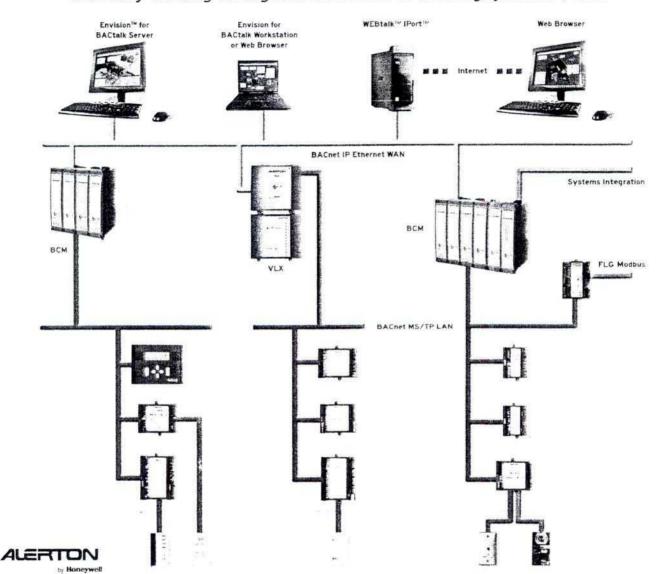
CSI	ITEM DESCRIPTION	UNIT		CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
	D. d. see v. 457 mm		4	1	6.000	7.000	6.500	1.333
IIIV S SOCIEDOS ESTADO	Duct accessories, multi-blade dampers, parallel blade, 760 mm x 457 mm	*			0.000	1,39,51	3507539	1185753
57 482-2020	Louvers, aluminum, extruded, with screen, mill finish, for cooling towr and mechanical egot, screens, standard weight	SQM		0.125 Foreman 1.000 Sheet Motal worker	3.000	3.000	3.000	2.667
	Louvers, aluminum, extruded, with screen, mill finish, dual combination automatic or manual or electric operation, intake or exhaust,		1	1.600 Tools Set	1.750	2.000	1.875	4.571
57 482-3000	Louver, aluminum, extruded, with screen, mill linish, fixed blade, mullion type.				2.250	3.000	2.625	3.556
57 490	stormproof or vertical line VENTILATORS		-		do antique de la constante de			
57 490-0500	Ventilator, base, damper & bird screen, rotary syphon, galvanized, 150 mm neck diameter, 0.087 CUM/s, in 8 km/hr wind	EA		0.125 Labor Foreman 2.000 Sheet Metal Worker 1.000 Sheet Metal Apprentice 1.000 Tools Set 1.000 Power Tools	20.000	23.000	21.500	0.800
57 490-0660	Ventilator base, damper & bird screen, rotary syphon, galvanized, 610 mm neck diameter. 0.722 CUM/s, in 8 km/hr wind				10.000	12.000	11.000	1.600
157 490-0720	Ventilator, base, damper & bird screen, rotary syphon,				5 000	6.000	5.500	3.200
157 600	galvanized 1067 mm neck diameter, 2 124 CUM/s in 8 km/hr wind MISCELLANEOUS		-					
	Man ransalaros estan		_					
157 601 157 601-0900	Balancing, air, heating and ventilating equipment central plan	EA		1,00 Mech. Foreman 2,00 HVAC Technicians 3,00 Common Laborers 1,00 Set Testing Tools 2,00 Tools Set	30.000	35.000	32.500	0.800
157 601-2000	Balancing, air, air conditioning equipment central plan				15.000	17.000	16.000	1.600
	Balancing, air, air supply & return units:registers, diffusers, grilles,etc				10.000	12.000	11.000	2.400
157 604	BALANCING, WATER	-	-	•				
	Balancing water, HVAC system, air cooled condenser (evaporative)	EA	V.	1.00 Mech. Foreman 2.00 HVAC Technicians 3.00 Common Laborers 1.00 Set Testing Tools 2.00 Tools Set	3.000	3.000	3.000	8.000
157 604-0200	Balancing water, HVAC system, chiller				1.000	1.000	1.000	24.000
157 604-0500	Balancing water, HVAC system, cooling tower				1.500	2.000	1.750	16.000
157 604-0600	Balancing water, HVAC system, fan coil unit, unit ventilator				5.00	6.000	5.500	4.800
157 604-0700	Balancing water, HVAC system, fin tube and radiant panels	1			4.00	5.000	4.500	6.000
157 604-0800	Balancing water, HVAC system, main and duct re-heat coils				4.00	5.000	4.500	6.000
157 604-081	Balancing water, HVAC system, heat exchanger				4.00	5.000	4.500	6.000
157 604-100	Balancing water, HVAC system, pumps				2.00	2.000	2.000	12.000
157 604-110	0 Balancing water, HVAC system, unit heater	1	S		5.00	6.000	5.500	4.800
157 610	DUST COLLECTION SYSTEM							
157 610-022	Dust collection system, commercial/industrial, central vacuum units includes stand, filters and motorized shaker, 0472 CUMs, 250 mm inlet, 3 HP	E	Α.	0 125 Foremen 1 000 Sheet Metal Worker 1 000 Sheet Metal Apprentice 0.250 Electrician 1 000 Tools Set	1.75	0 2.000	1.875	4.57
157 610-112	Dust collection system, vacuum tubing, galvanized 76 mm OD, 16 ga.	U	м	0 125 Laborer Foreman 2 000 Sheet Metal Worker 1 000 Sheet Metal Apprentice 1 000 Tools Set 1 000 Power Tools	150.00	0 173.000	161.500	0.10
157 610-114	10 Dust collection system, vacuum tubing, galvanized 100 mm OD, 16 ga.				140.00	0 161.000	150.500	0 11
	Dust collection system, vacuum tubing, galvanized 150 mm OD, 14 ga.				110.00	00 127.000	118.500	0 14
157 610-119	Dust collection system, vacuum tubing, galvanized 300 mm OD, 12 ga.				45.00	52.000	48.500	0.35
157 610-120	Dust collection system, vacuum tubing, galvanized 356 mm OD, 12 ga.				30.00	35.000	32.500	0.53
157 610-195	56 Vacuum, hose, flexible wire reinforced rubber 76 mm dia				140.00	00 161.000	150.500	0.11
157 610-198	Nacuum, hose, flexible wire reinforced rubber 150 mm dia.				110.00	00 127.000	118.500	U 14
157 610-213	30 Vacuum tubing 90/45 degree elbow size 76 mm dia.			Laurence Laurence	75.0	000.88	80.500	0.21
E TRUE STANDARDON	70 Vacuum tubing 90/45 degree elbow size 150 mm dia	E	A		50.0	58.000	54.000	0 32
	70 Vacuum tubing compression coupling, galvanized, neoprene gasket size 54 mm dia				52.0	00 60 (10)0	56 000	0.30
-	90 Vacuum tubing compression coupling, galvanized, neoprene gasket size 76 mm dia				45.0	00 52:61	43 600	:
	30 Vacuum tubing compression coupling, galvanized, neoprene gasket size 150 mm dia		1	A STATE OF THE STA	30.0	35,00	22 (20	
	30 Vacuum tubing air gate valve, galvanized, neoprene gasket size 76 mm dta		1		30.0	00 35.000	32,500	0.5
	50 Vacuum tubing air gate valve, galvanized, neoprene gasket size 150 mm dia	1	1		22.0	00 25.000	23.500	0.7

Division 16 Electrical

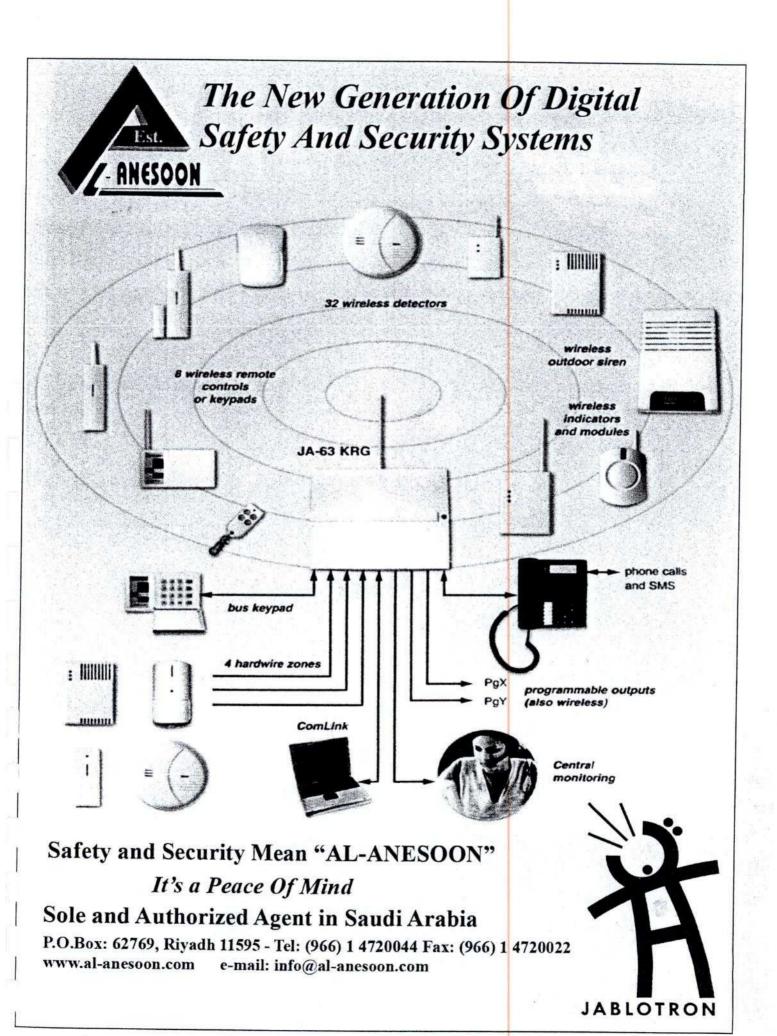


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Division 16.. Electrical..

Estimating Tips:

General

Estimators for this division item shall have full knowledge of the system and working knowledge used, prepare a complete take-off quantities, code requirements, specifications, and SCECO requirements.

160 Raceways:

Conduit should be taken off in three main categories: power distribution, branch power, and branch lighting, so the estimator can concentrate on systems and components, therefore making it easier to ensure all items have been accounted for. For cost modifications for elevated conduit installation, add the percentage to labor according to the height of installation for all and only the quantities exceeding the different height levels and number of building floors.

161 Conductors & Grounding:

Remember that aluminum wiring of equal capacity is larger in diameter than copper and may require larger conduit. If more than three wires at a time are being pulled, deduct percentages from the labor hours of that grouping of wires.

162 Boxes & Wiring Devices:

The estimator should take the weights of materials into consideration when completing a take-off. Topics to consider include:

- How will the materials be supported?
- How high will the support structure have to reach?
- Will the final support structure be able to withstand the total burden?
- Is the support material included or separate from the fixture, equipment and material specified ?

163 Motors, Starters, Boards & Switches:

Estimator shall include all supporting systems for these items, whether it is a foundation, bracket or a piece of wood.

164 Transformers & Bus Ducts:

Never forget to include the equipment cost for such installation, whether scaffolding, lifts or cranes.

165 Lighting:

Productivity rate for lighting fixtures varies with the number of fixtures included in a single room.

Estimators are advised to increase productivity rate of lighting fixtures in large rooms including more than six (6) fixtures.

168 Special Electrical System:

Usually most of these systems are let to specialized contractors, provisions for special installation requirements shall be consulted.

169 Utilities:

Usually these items are let to specialty contractors, whether for transmission lines and accessories of specialized high voltage equipment. Productivity varies with site conditions, hilly, plain, easy access, and nearby roads. Site investigation prior pricing such items is very important. Equipment supports, foundations, metal, etc.. shall not be overlooked.

CODE	ITEM DESCRIPTION	UN	IT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG E. H.
160	RACEWAYS				to policy and	000	5480 ACTA	27015
160 100	CABLE TRAYS							
160 102	CABLE TRAY GENERAL		-70		-			
160 102-0050	Cable tray for elevated installation higher than 4.6 m, floor height & up to 6 m add	PERC	0.00	0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Tools Set				
160 102-0100	Cable tray for elevated installation higher than 4.6 m, floor height & from 6.1 to 8 m floor height add							
160 102-0700	Cable tray,galv.steel,With fittings & supports, 100 mm deep, 100 mm rung spacing, Fo more than 2 floors building, Add to above items Per each additional floor.							
160 105	CABLE TRAY LADDER:			X				
160 105-0200	Cable tray ladder,galv.steel,With fittings & supports, 100 mm deep, 100 mm rung spacing, 300 mm wide; 2 floors building, 4.6 m floor to floor	LM		0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Tools Set	14.720	17.00	15.86	0.5
160 105-0400	Cable tray ladder,galv.steel,With fittings & supports, 100 mm deep, 100 mm rung spacing, 450 mm wide; 2 floors building, 4.6 m floor to floor	I		1.000 10015 361	12.880	15.00	13.94	0.62
160 105-0600	Cable tray ladder,galv.steel,With fittings & supports, 100 mm deep, 100 mm rung spacing, 600 mm wide; 2 floors building., 4.6 m floor to floor				11.780	14.00	12.89	0.67
160 110	CABLE TRAY SOLID: 4.6 m floor to floor height.	1	-	Y				
160 110-0170	Cable tray solid, galv.steel, With fittings & supports, 100 mm deep 150 mm wide; 2 floor building,	LM		0.125 Electrical Forerran 1.000 Electrician 1.000 Helper 1.000 Tools Set	13.800	16.00	14.90	0.58
160 110-0200	Cable tray solid, galv.steel, With fittings & supports, 150 mm deep, 300 mm wide; 2 floor building.	П	1		12.650	15.00	13.83	0.63
160 110-0600	Cable tray solid, galv.steel, With fittings & supports, 150 mm deep, 600 mm wide; 2 floor building.		7		9.420	11.00	10.21	0.84
	CABLE TRAY ACCESSORIES:		_		92,000			0.0
60 115-0100	Cable tray Elbow 150 mm wide	EA	1	0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Power/Tools Set	6.000	7.00	6.50	1.33
60 115-0200	Cable tray Elbow 300 mm wide		Ť		4.000	5.00	4.50	2.00
60 115-0400	Cable tray Elbow 600 mm wide		T	1	3.000	3.00	3.00	2.66
60 150	WIREWAY:							
60 150-0200	Wireway screw cover with fittings and supports, 100 mm x 100 mm; 2 floors building.	LM	1	.125 Electrical Foreman .000 Electrician .000 Helper .000 Power/Tools Set	13.000	15.00	14.00	0.61
60 150-0400	Wireway screw cover with fittings and supports, 150 mm x 150 mm; 2 floors building.				11.000	13.00	12.00	0.72
60 150-0600	Wireway screw cover with fittings and supports, 200 mm x 200 mm; 2 floors building.	+	I		8.000	9.00	8.50	1.000
	CONDUITS							
60 202	CONDUIT GENERAL:	Tilles					4	
60 202-0050	Conduit elevated installation higher than 4.6 m, floor height & up to 6 m add	PERCEN	ντ 1.	125 Electrical Foreman 000 Electrician 000 Helper 000 Power/Tools Set				
60 202-0100	Conduit elevated installation higher than 4.6 m, floor height & from 6.1 to 8 m floor neight add		T					
	Conduit installation higher than 4.6 m, floor height & from 8.1 to 10 m floor height add		1				-	1000
50 202-0700	Conduit elevated installation, For more than 2 floors building, Add to above items Per ach additional floor.	+	t					
	CONDUIT:	*	1	*			-	
0 205-0300	Conduit Aluminium, exposed in 2 story building includes 1 termination, 1 elbow every 6 neters & 1 clamp every 2.75 m., 15 mm diameter (1/2")	LM	1.0	125 Electrical Foreman 000 Electrician 000 Helper 000 Conduit Power Tools	32.600	37.00	34.80	0.245
	conduit Aluminium, exposed,in 2 story building,includes 1 termination,1 elbow every 6 neters & 1 clamp every 2.75 m., 20 mm diameter (3/4*)		T		29.500	34.00	31.75	0.271
0 205-0700	conduit Aluminium, exposed,in 2 story building,includes 1 termination,1 elbow every 6 neters & 1 clamp every 2.75 m., 25 mm diameter (1")		1		24.700	28.00	26.35	0.324
0 205-1030	conduit Aluminium, exposed,in 2 story building includes 1 termination, 1 elbow every 6 leters & 1 clamp every 2.75 m., 38 mm diameter (1-1/2")				22.450	26.00	24.23	0.356
0 205-1050 C	onduit Aluminium, exposed in 2 story building, includes 1 termination, 1 elbow every 6 leters & 1 clamp every 2.75 m., 50 mm diameter (2")		T		21.900	25.00	23.45	0.365
0 205-1140	onduit Aluminium, exposed in 2 story building includes 1 termination, 1 elbow every 6		-	10 000	10.300	12.00	11.15	0.777
0 205-1750 C	eters & 1 clamp every 2.75 m., 100 mm diameter (4") onduit Galv. Rigid Steel, exposed,in 2 story building,includes 1 termination,1 elbow	-			28.990	33.00		
0 205 1770 C	very 6 meters & 1 clamp every 2.75 m., 15 mm diameter (1/2") onduit Galv. Rigid Steel, exposed,in 2 story building,includes 1 termination,1 elbow	+	-	-			31.00	0.276
e 202-1770	very 6 meters & 1 clamp every 2.75 m., 20 mm diameter (3/4")			J 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	26.790	31.00	28.90	0.299

		ODEW	D 0		D. O.	AVRG.
ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	AVRG.	E. H.
			22.500	26.00	24.25	0.356
Conduit Galv. Rigid Steel, exposed,in 2 story building,includes 1 termination,1 elbow	Ų.		16.770	19.00	17.89	0.47
Conduit Galv. Rigid Steel, exposed,in 2 story building,includes 1 termination,1 elbow	LM	0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Conduit Power Tools	13.700	16.00	14.85	0.58
Conduit Galv. Rigid Steel, exposed, in 2 story building, includes 1 termination, 1 elbow			8.930	10.00	9.47	0.89
Conduit Galv. Rigid Steel, exposed,in 2 story building includes 1 termination,1 elbow			6.140	7.00	6.57	1.30
Conduit Intermediate Steel (IMC), exposed,in 2 story building includes 1 termination,1		V	29.500	34.00	31.75	0.27
Conduit Intermediate Steel (IMC), exposed,in 2 story building includes 1 termination,1			24,700	28.00	26.35	0.32
Conduit Intermediate Steel (IMC), exposed in 2 story building includes 1 termination,1			21.900	25.00	23.45	0.36
Conduit Intermediate Steel (IMC), exposed in 2 story building includes 1 termination,1			15.100	17.00	16.05	0.50
Conduit Intermediate Steel (IMC), exposed in 2 story building includes 1 termination, 1			12.500	14.00	13.25	0.64
Conduit Intermediate Steel (IMC), exposed in 2 story building includes 1 termination, 1 elbow every 6 meters & 1 clamp every 2.75 m., 90 mm diameter (3-1/2")			8.400	10.00	9.20	0.9
Conduit Electric Metallic Tubing (EMT), exposed in 2 story building includes 1			53.600	62.00	57.80	0.1
Conduit Electric Metallic Tubing (EMT), exposed,in 2 story building,includes 1			48,900	56.00	52.45	0.1
Conduit Electric Metallic Tubing (EMT), exposed in 2 story building includes 1			40.400	46.00	43.20	0.1
Conduit Electric Metallic Tubing (EMT), exposed in 2 story building,includes 1			33.900	39.00	36.45	0.2
Conduit Electric Metallic Tubing (EMT), exposed in 2 story building, includes 1			30.200	35.00	32.60	0.2
Conduit Electric Metallic Tubing (EMT), exposed in 2 story building includes 1		.	24.700	28.00	26.35	0.3
CONDUIT IN CONCRETE SLAB:						
Conduit in concrete slab;PVC Sch 40; With terminations,fittings & supports, 20 mm diameter (3/4")	LM	0 125 Electrical Foreman 1:000 Electrician 1:000 Helper 1:000 Conduit Power Tools	44.500	51.00	47.75	0.1
Conduit in concrete slab;PVC Sch 40; With terminations, fittings & supports, 25 mm			37,85	44.00	40.93	0.2
Conduit in concrete slab;PVC Sch 40; With terminations, fittings & supports, 32 mm			33.40	38.00	35.70	0.2
Conduit in concrete slab;PVC Sch 40; With terminations, fittings & supports, 38 mm			26.72	31.00	28.86	0.2
Conduit in concrete slab;Galv. Rigid Steel; With terminations, fittings & supports, 20 mm			27.35	31.00	29.18	0,2
Conduit in concrete slab; Galv. Rigid Steel; With terminations, fittings & supports, 25 mm			22.90	26.00	24.45	0.3
Conduit in concrete slab; Galv. Rigid Steel; With terminations, fittings & supports, 38 mm			17.13	20.00	18.57	0.4
Conduit in concrete slab; Galv. Rigid Steel; With terminations, fittings & supports, 50 mm			13.99	0 16.00	15.00	0.5
		100				
Conduit,galvanized rigid steel in trench underground with fittings & terminations,no excavation or backfill, 50 mm diameter (2")	LM	0.125 Electrical Foreman 1.000 Electrician 1.000 Helper	49.80	0 57.00	53,40	0.1
Conduit,galvanized rigid steel in trench underground with fittings & terminations,no		1000 0000011 0000	32.48	0 37.00	34.74	0.2
Conduit,galvanized rigid steel in trench underground with fittings & terminations,no			22.34	0 26.00	24.17	0.
FLEXIBLE CONDUITS FOR MOTOR CONNECTIONS:		1/				-
Flexible Conduit With watertight fittings both ends; 0.6 meter Length Size 20 mm (3/4")	EA	1,000 Electrician 1,000 Helper	14.00	0 16.00	15.00	0.
Flexible Conduit With watertight fittings both ends; 0.6 meter Length Size 25 mm (1")			10.00	0 12.00	11.00	0
Flexible Conduit With watertight fittings both ends; 0.6 meter Length Size 38 mm (1-			7.00	90.8	7.50	1
Flexible Conduit With watertight fittings both ends; 0.6 meter Length Size 50 mm (2°)			5.00	6.00	5.50	1.
C - C - C - C - C - C - C - C - C - C -	Conduit Galv. Rigid Steel, exposed, in 2 story building, includes 1 termination, 1 elbow every 6 meters & 1 clamp every 2.75 m., 25 mm diameter (117). Conduit Galv. Rigid Steel, exposed, in 2 story building, includes 1 termination, 1 elbow every 6 meters & 1 clamp every 2.75 m., 38 mm diameter (1-1/2"). Conduit Galv. Rigid Steel, exposed, in 2 story building, includes 1 termination, 1 elbow every 6 meters & 1 clamp every 2.75 m., 50 mm diameter (27). Conduit Galv. Rigid Steel, exposed, in 2 story building, includes 1 termination, 1 elbow every 6 meters & 1 clamp every 2.75 m., 100 mm diameter (37). Conduit Index Rigid Steel, exposed, in 2 story building, includes 1 termination, 1 elbow every 6 meters & 1 clamp every 2.75 m., 100 mm diameter (37). Conduit Intermediate Steel (MC), exposed, in 2 story building, includes 1 termination, 1 elbow every 6 meters & 1 clamp every 2.75 m., 20 mm diameter (34°). Conduit Intermediate Steel (MC), exposed, in 2 story building, includes 1 termination, 1 elbow every 6 meters & 1 clamp every 2.75 m., 32 mm diameter (117). Conduit Intermediate Steel (MC), exposed, in 2 story building, includes 1 termination, 1 elbow every 6 meters & 1 clamp every 2.75 m., 32 mm diameter (117). Conduit Intermediate Steel (MC), exposed, in 2 story building, includes 1 termination, 1 elbow every 6 meters & 1 clamp every 2.75 m., 50 mm diameter (127). Conduit Intermediate Steel (MC), exposed, in 2 story building, includes 1 termination, 1 elbow every 6 meters & 1 clamp every 2.75 m., 50 mm diameter (210°). Conduit Electric Metallic Tubing (EMT), exposed, in 2 story building, includes 1 termination, 1 elbow every 6 meters & 1 clamp every 2.75 m., 50 mm diameter (210°). Conduit Electric Metallic Tubing (EMT), exposed, in 2 story building, includes 1 termination, 1 elbow every 6 meters & 1 clamp every 2.75 m., 50 mm diameter (210°). Conduit Electric Metallic Tubing (EMT), exposed, in 2 story building, includes 1 termination, 1 elbow every 6 meters & 1 clamp every 2.75 m., 50 mm diameter (34°). Conduit E	Conduit Galv. Rigid Steel, exposed in 2 story building includes 1 termination,1 elbow every 6 meters 8.1 clamp every 2.75 m., 25 mm diameter (11)? Conduit Galv. Rigid Steel, exposed in 2 story building includes 1 termination,1 elbow every 6 meters 8.1 clamp every 2.75 m., 39 mm diameter (1-1/2') Conduit Galv. Rigid Steel, exposed in 2 story building includes 1 termination,1 elbow every 6 meters 8.1 clamp every 2.75 m., 50 mm diameter (2') Conduit Galv. Rigid Steel, exposed in 2 story building includes 1 termination,1 elbow every 6 meters 8.1 clamp every 2.75 m., 75 mm diameter (3') Conduit Galv. Rigid Steel, exposed in 2 story building includes 1 termination,1 elbow every 6 meters 8.1 clamp every 2.75 m., 20 mm diameter (3') Conduit Intermediate Steel (MC), exposed in 2 story building includes 1 termination,1 elbow every 6 meters 8.1 clamp every 2.75 m., 20 mm diameter (3') Conduit Intermediate Steel (MC), exposed in 2 story building includes 1 termination,1 elbow every 6 meters 8.1 clamp every 2.75 m., 32 mm diameter (1'14') Conduit Intermediate Steel (MC), exposed in 2 story building includes 1 termination,1 elbow every 6 meters 8.1 clamp every 2.75 m., 30 mm diameter (1'14') Conduit Intermediate Steel (MC), exposed in 2 story building includes 1 termination,1 elbow every 6 meters 8.1 clamp every 2.75 m., 30 mm diameter (2'12') Conduit Intermediate Steel (MC), exposed in 2 story building includes 1 termination,1 elbow every 6 meters 8.1 clamp every 2.75 m., 30 mm diameter (2'12') Conduit Intermediate Steel (MC), exposed in 2 story building includes 1 termination,1 elbow every 6 meters 8.1 clamp every 2.75 m., 30 mm diameter (1'12') Conduit Electric Metallic Tubing (EMT), exposed in 2 story building includes 1 termination,1 elbow every 6 meters 8.1 clamp every 2.75 m., 30 mm diameter (1'12') Conduit Electric Metallic Tubing (EMT), exposed in 2 story building includes 1 termination,1 elbow every 6 meters 8.1 clamp every 2.75 m., 30 mm diameter (1'12') Conduit Electric Metallic Tubing (EMT), exposed	Conduit Galiv. Rigid Steel, exposed in 2 story building, includes 1 termination,1 elbow every 6 meters. & 1 claimp every 2.75 m., 25 mm diameter (1.12) Conduit Galiv. Rigid Steel, exposed in 2 story building, includes 1 termination,1 elbow every 6 meters & 1 claimp every 2.75 m., 25 mm diameter (1.12) Conduit Galiv. Rigid Steel, exposed in 2 story building, includes 1 termination,1 elbow every 6 meters & 1 claimp every 2.75 m., 25 mm diameter (3) Conduit Galiv. Rigid Steel, exposed in 2 story building includes 1 termination,1 elbow every 6 meters & 1 claimp every 2.75 m., 25 mm diameter (3) Conduit Galiv. Rigid Steel, exposed in 2 story building includes 1 termination,1 elbow every 6 meters & 1 claimp every 2.75 m., 20 mm diameter (3) Conduit trained Steel (MIC), exposed in 2 story building includes 1 termination,1 elbow every 6 meters & 1 claimp every 2.75 m., 25 mm diameter (1) Conduit trained steel (MIC), exposed in 2 story building includes 1 termination,1 elbow every 6 meters & 1 claimp every 2.75 m., 25 mm diameter (1) Conduit trained steel (MIC), exposed in 2 story building includes 1 termination,1 elbow every 6 meters & 1 claimp every 2.75 m., 25 mm diameter (1) Conduit trained steel (MIC), exposed in 2 story building includes 1 termination,1 elbow every 6 meters & 1 claimp every 2.75 m., 30 mm diameter (2) Conduit trained steel (MIC), exposed in 2 story building includes 1 termination,1 elbow every 6 meters & 1 claimp every 2.75 m., 30 mm diameter (2) Conduit trained steel (MIC), exposed in 2 story building includes 1 termination,1 elbow every 6 meters & 1 claimp every 2.75 m., 30 mm diameter (2) Conduit trained steel (MIC), exposed in 2 story building includes 1 termination,1 elbow every 6 meters & 1 claimp every 2.75 m., 30 mm diameter (3) Conduit trained steel (MIC), exposed in 2 story building includes 1 termination,1 elbow every 6 meters & 1 claimp every 2.75 m., 30 mm diameter (3) Conduit trained steel (MIC) exposed in 2 story building includes 1 termination,1 elbow every 6 meters &	Conduit Calin Rigid Steel, exposed in 2 story building includes 1 termination, 1 elbow words meating. 8.1 claims every 2.75 m., 25 mm disameter (1.17). Conduit Calin Rigid Steel, exposed in 2 story building includes 1 termination, 1 elbow words females 8.1 claims every 2.75 m., 30 mm disameter (1.17). Conduit Calin Rigid Steel, exposed in 2 story building includes 1 termination, 1 elbow every 6 meters 8.1 claims every 2.75 m., 30 mm disameter (1.172). Conduit Calin Rigid Steel, exposed in 2 story building includes 1 termination, 1 elbow every 6 meters 8.1 claims every 2.75 m., 30 mm disameter (1.172). Conduit Calin Rigid Steel, exposed in 2 story building includes 1 termination, 1 elbow every 6 meters 8.1 claims every 2.75 m., 25 mm disameter (1.172). Conduit Calin Rigid Steel, exposed in 2 story building includes 1 termination, 1 elbow every 6 meters 8.1 claims every 2.75 m., 25 mm disameter (1.172). Conduit Intermediate Steel (MCI), exposed in 2 story building includes 1 termination, 1 elbow every 6 meters 8.1 claims every 2.75 m., 25 mm disameter (1.172). Conduit Intermediate Steel (MCI), exposed in 2 story building includes 1 termination, 1 elbow every 6 meters 8.1 claims every 2.75 m., 25 mm disameter (1.172). Conduit Intermediate Steel (MCI), exposed in 2 story building includes 1 termination, 1 elbow every 6 meters 8.1 claims every 2.75 m., 25 mm disameter (1.172). Conduit Intermediate Steel (MCI), exposed in 2 story building includes 1 termination, 1 elbow every 6 meters 8.1 claims every 2.75 m., 25 mm disameter (1.172). Conduit Intermediate Steel (MCI), exposed in 2 story building includes 1 termination, 1 elbow every 6 meters 8.1 claims every 2.75 m., 30 mm disameter (1.172). Conduit Intermediate Steel (MCI), exposed in 2 story building includes 1 termination, 1 elbow every 6 meters 8.1 claims every 2.75 m., 30 mm disameter (1.172). Conduit Electric Metallic Tubing (EMT), exposed in 2 story building includes 1 termination, 1 elbow every 6 meters 8.1 claims every 6 meters 8.1 claims every 6	Corduir Calv. Rigid Steet. approach of 20 years within proceders 1 termination, 1 ebow. Part of the process of 21 km, 25 mm dishmeter (11) and 22,500 26,00 and 21 km, 25 mm dishmeter (11) and 22,500 26,00 and 21 km, 25 mm dishmeter (11) and 22,500 26,00 and 21 km, 25 mm dishmeter (11) and 22,500 26,00 and 21 km, 25 mm dishmeter (11) and 22,500 26,00 and 22 km, 25 mm dishmeter (11) and 25 km, 25	Conduct Gails Rigid Steel exceeded in 2 days by laurillar products termination, 1 show sery 5 meters 8, 1 claims previry 2.75 m., 25 mm diameter (1) 1,000 1,200 1,000

CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
160 290-0110	Wiremold,raceway,surface,metal,straight section No.700	LM	0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Power Tools Set	42.000	48.00	45.00	0.19
160 290-0600	Wiremold,raceway,surface,metal,straight section No.2000,base & cover			36.000	41.00	38.50	0.22
160 290-0800	Wiremold,raceway,surface,metal,straight section No.3000,base & cover			31.500	36.00	33.75	0.25
160 290-2400	Wiremold fitting; ELBOW & cover			48.000	55.00	51.50	0.16
160 290-2900	Wiremold fitting; TEE connector		.	30,000	35.00	32.50	0.26
160 290-3000	Wiremold fitting; Switch box	LM	0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Power Tools Set	20.000	23.00	21.50	0.40
160 290-3600	Wiremold fitting; Junction box	190		20.000	23.00	21,50	0.40
160 500	DUCTS			1			
160 540	TRENCH DUCT:						
160 540-0200	Trench duct steel with cover adjustable depths to 100mm, straight, single compartment, 300 mm wide	LM	0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Power Tools	6.500	7.00	6.75	1.23
160 540-0600	Trench duct, steel with cover adjustable depths to 100mm, straight, single compartment, 600 mm wide			5.500	6.00	5.75	1.45
160 540-1000	Trench duct, steel with cover adjustable depths to 100mm, straight, single compartment, 900 mm wide			4.000	5.00	4.50	2.00
60 540-1400	Trench duct fitting; horizontal or vertical Elbow, 300 mm wide	EA		4.000	5.00	4.50	2.00
	Trench duct fitting; horizontal or vertical Elbow, 600 mm wide			2.500	3.00	2.75	3.20
	Trench duct; Cross fitting, 300 mm wide			2.500	3.00	2.75	3.20
	Trench duct; Cross fitting, 600 mm wide			1.500	2.00	1.75	5.33
330 - VSA - SO-941	Trench duct fitting; End closure, 300 mm wide			8.000	9.00	8.50	1.00
				6.000	7.00	6.50	1.33
	Trench duct fitting; TEE connection, 300 mm wide			2.500	3.00	2.75	3.20
ACCUMUNICATION OF THE	Trench duct fitting; Riser & cabinet connector, 900 mm wide			4.000	5.00	4.50	2.00
	Trench duct fitting; Insert assembly,cell to conduit adapter, 32 mm	1		20.000	23.00	21.50	0.40
60 560	UNDERFLOOR DUCT:	-	· · · · · · · · · · · · · · · · · · ·				
60 560-0400	Floor trunking 35mm x 80mm with 22mm or 35mm inserts at 600mm O.C.	LM	0.125 Electrical Foreman 1,000 Electrician 1,000 Heliper 1,000 Power Tools	36.000	41.00	38.50	0.22
60 560-0600	Floor trunking 35mm x 180mm , super duct with 22mm or 35mm inserts at 600mm O.C.			30.000	35.00	32.50	0.26
60 560-0800	Floor trunking fittings; Junction box,single duct, 1 level, 80mm			6.000	7.00	6.50	1.33
60 560-1000	Floor trunking fittings; Junction box,single duct, 1 level, 180mm			4.000	5.00	4.50	2.00
60 560-1400	Floor trunking fittings; Junction box, 2 duct, 1 level, 180mm			3.000	3.00	3.00	2.66
60 560-1600	Floor trunking fittings; Junction box,triple duct, 1 level, 80mm			3.000	3.00	3.00	2.66
60 560-1800	Floor trunking fittings; Insert to conduit adapter,19mm x 25mm			40.000	46.00	43.00	0.20
60 560-2200	Floor trunking fitting; Support, super duct cell 180mm wide			20.000	23.00	21.50	0.40
60 560-2400	Floor trunking fitting; Support,double cell 80mm wide			20.000	23.00	21.50	0.40
60 560-2800	Floor trunking fitting; Vertical Elbow,standard duct 80 mm	EA		14.000	16.00	15.00	0.57
60 560-3000	Floor trunking fitting; Vertical Elbow, super duct 180 mm	T		11.000	13.00	12.00	0.72
60 560-3400	Floor trunking fitting; Cabinet connector, super duct 180mm			32.000	37.00	34.50	0.25
60 560-3600	Floor trunking fitting; Conduit adapter,25mm to 32mm			34.000	39.00	36.50	0.235
60 560-3800	Floor trunking fitting; Conduit adapter,50mm to 32mm			30.000	35.00	32.50	0.26
60 560-4000	Floor trunking fitting; Low tension Outlet,(telephone,computer,etc.)		TENER DE LE	12.000	14.00	13.00	0.667
60 560-4200	Floor trunking fitting; Receptacle outlet		BEET MEET	12.000	14.00	13.00	0.667
61	CONDUCTORS & GROUNDING						
Open Company of the C	CONDUCTORS		告以其:"·	2			
Company Walter	ARMORED CABLE:	1					7
	1 KV wire armored Cable,With PVC jacket,in cable tray;copper; 4 x 6 mm2	LM	0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Tools Set	209.000	240.00	224.50	0.038
61 105-0250	1 KV wire armored Cable, With PVC jacket,in cable tray;copper; 3 x 50 + 25 mm2			93.000	107.00	100.00	0.086
61 105-0400	1 KV wire armored Cable, With PVC jacket,in cable tray;copper; 3 x 120 + 70 mm2	1		64.000	74.00	69.00	0.12

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161 105-0550	1 KV wire armored Cable, With PVC jacket,in cable tray;copper; 3 x 240 + 120 mm2			46.000	53.00	49.50	0.17
161 105-0600	1 KV wire armored Cable, With PVC jacket,in cable tray;copper; 3 x 300 + 150 mm2			37.000	43.00	40.00	0.21
161 105-1700	1 KV wire armored Cable, With PVC jacket,in cable tray;aluminium; 3 x 50 + 25 mm2			102.000	117.00	109.50	0.078
161 105-2300	1 KV wire armored Cable, With PVC jacket,in cable tray;aluminium; 3 x 240 + 120 mm2	1		51.000	59.00	55.00	0.15
161 105-2500	1 KV wire armored Cable, With PVC jacket,in cable tray;aluminium; 3 x 300 + 150 mm2			41.000	47.00	44.00	0.19
161 105-5000	15 KV wire armored Cable, Shielded & With PVC jacket, in cable tray; copper; 3 x 25			68.000	78.00	73.00	0.118
161 105-5150	mm2 15 KV wire armored Cable, Shielded & With PVC jacket, in cable tray, copper, 3 x 95			57.000	66.00	61.50	0.14
101 100 0100	mm2	*	0.125 Electrical Foreman	-	30.00		
161 105-5200	15 KV wire armored Cable, Shielded & With PVC jacket, in cable tray; copper: 3 x 120 mm2	LM	1.000 Special Electrician 1.000 Helper 1.000 Tools Set	53.000	61.00	57.00	0.15
161 105-5300	15 KV wire armored Cable, Shielded & With PVC jacket, in cable tray; copper; 3 x 185		1,000 1005 561	46.000	53.00	49.50	0.174
161 105-5350	mm2 15 KV wire armored Cable, Shielded & With PVC jacket, in cable tray; copper; 3 x 240			39.000	45.00	42.00	0.205
161 105-5400	mm2 15 KV wire armored Cable, Shielded & With PVC jacket, in cable tray; copper; 3 x 300			31.000	36.00	33.50	0.258
161 105-7200	mm2 15 KV wire armored Cable, Shielded & With PVC jacket, in cable tray; aluminium; 3 x 95	+		60.000	69.00	64.50	0.130
OTAL ADDINATES	mm2 15 KV wire armored Cable, Shielded & With PVC jacket, in cable tray; aluminium, 3 x 150		-	53.000	61.00	57.00	0.151
161 105-7500	mm2 15 KV wire armored Cable, Shielded & With PVC jacket, in cable tray; aluminium; 3 x 240			7.000000	785344	A CHECKE	-1000100
161 105-7700	mm2 15 KV wire armored Cable Shielded & With PVC lacket in cable tray;aluminium; 3 x 300	+		42.000	48.00	45.00	0.190
161 105-7750	mm2	+	<u> </u>	33.000	38.00	35.50	0.242
161 135	CONTROL CABLE:		1 Electrician				
	1 KV control cable, 1.5 mm2, PVC jacket; 6 wires, installed in cable tray	LM	1 Tools Set	300.000	345.00	322.50	0.02
A CONTRACTOR	1 KV control cable, 1.5 mm2, PVC jacket; 10 wires, installed in cable tray			250.000	288.00	269.00	0.03
161 135-0600	1 KV control cable, 1.5 mm2, PVC jacket; 20 wires, installed in cable tray		0.125 Electrical Foreman	160,000	184.00	172.00	0.050
161 135-0700	1 KV control cable, 1.5 mm2, PVC jacket; 10 wires, installed in conduit		1.000 Special Electrician 1.000 Helper 1.000 Electrician Tools Set	120.000	138.00	129.00	0.06
161 135-0900	1 KV control cable, 1.5 mm2, PVC jacket; 20 wires, installed in conduit		0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Tools Set	75.000	86.00	80.50	0.10
161 137	FIBER OPTICS:						
161 137-0100	Fiber optic cable,labor depends on fiber type & type of connectors; Average labor	LM	0.125 Electrical Foreman 1.000 Special Electrician 1.000 Helper 1.000 Special Tools Set	250.000	288.00	269.00	0.03
161 137-0200	Fiber optic cable connector	EA	1 Electrician 1 Tools Set	20.000	23.00	21.50	0.40
161 137-0300	Fiber optic cable finger splice			25.000	29.00	27.00	0.32
161 137-0400	Multi-channel rack enclosure, (10 Modules)			1.500	2.00	1.75	5.330
161 137-0500	Fiber optic patch panel (12 points)	+	+	4.000	5.00	4.50	2.000
161 140	MINERAL INSULATED CABLES:			Aur Charles			
161 140-0400	1 KV ; mineral insulated cable, installed in cable tray, copper; 1 x 16 mm2	LM	0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Electrician Tools Set	100.000	115.00	107.50	0.08
161 140-0600	1 KV; mineral insulated cable, installed in cable tray, copper; 1 x 50 mm2			70.000	81.00	75.50	0.11
161 140-0900	1 KV; mineral insulated cable, installed in cable tray, copper; 1 x 150 mm2			50.000	58.00	54.00	0.16
161 140-1000	1 KV; mineral insulated cable, installed in cable tray, copper; 1 x 240 mm2	•	•	40.000	46.00	43.00	0.20
161 145	NON- ARMORED CABLE:						
161 145-0120	1 KV cable, PVC insulated, PVC Sheath,installed in cable tray, copper; 4 x 16 mm2	LM	0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Tools Set	170.000	196.00	183.00	0.04
161 145-0300	1 KV cable, PVC insulated, PVC Sheath,installed in cable tray, copper; 3 x 95 + 50			61.000	70.00	65.50	0.13
161 145-0380	mm2 1 KV cable, PVC insulated, PVC Sheath,installed in cable tray, copper; 3 x 150 + 70			66.000	76.00	71.00	0.12
161 145-0460	mm2 1 KV cable, PVC insulated, PVC Sheath, installed in cable tray, copper; 3 x 240 + 120			50.000	58.00	54 00	616
	mm2 1 KV cable, PVC insulated, PVC Sheath,installed in cable tray, copper; 3 x 300 + 150	-		10000000	46.00	43.00	0.20
161 145-0500	Transfer to mediate, the enderthing make the start and the start to th			40.000			

CSI CODE	ITEM DESCRIPTION	UNI	Т	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
161 145-0940	1 KV cable, PVC insulated, PVC Sheath,installed in cable tray, copper; 1 x 70 mm2				168.000	193.00	180.50	0.04
161 145-1100	1 KV cable, PVC insulated, PVC Sheath,installed in cable tray, copper; 1 x 185 mm2	T			140.000	161.00	150.50	0.05
161 145-1180	1 KV cable, PVC insulated, PVC Sheath,installed in cable tray, copper; 1 x 300 mm2				122.000	140.00	131.00	0.06
161 145-1700	1 KV cable, PVC insulated, PVC Sheath, installed in conduit, copper; 3 x 25 + 16 mm2, including 2 terminations every 30 m run, conduit length up to 30 meter, conduits not included	П			102.000	117.00	109.50	0.07
161 145-1860	1 KV cable, PVC insulated, PVC Sheath, installed in conduit, copper; 3 x 95 + 50 mm2, including 2 terminations every 30 m run, conduit length up to 30 meter, conduits not included				56.000	64.00	60.00	0.14
161 145-1940	1 KV cable, PVC insulated, PVC Sheath,installed in conduit, copper; 3 x 150 + 70 mm2				51.000	59.00	55.00	0.15
161 145-2220	1 KV cable, PVC insulated, PVC Sheath,installed in conduit, copper; 3 x 240 + 120 mm2	П			39.000	45.00	42.00	0.20
161 145-2260	1 KV cable, PVC insulated, PVC Sheath,installed in c0nduit, copper; 3 x 300 + 150		1		31.000	36.00	33.50	0.25
	mm2, including 2 terminations, conduits not included	*		0.250 Electrical Foreman	01.000	50.00	00.00	0.23
101 140 2000	1 KV cable, PVC insulated, PVC Sheath, installed in conduit, copper; 1 x 70 mm2, including 4 terminations per 100 meter 1 KV cable, PVC insulated, PVC Sheath, installed in conduit, copper; 1 x 70 mm2, including 4 terminations per 100 meter.	LM		1.000 Electrician 3.000 Electrician Helper 1.000 Tools Set	131.000	151.00	141.00	0.06
101 140 2040	1 KV cable, PVC insulated, PVC Sheath,installed in conduit, copper; 1 x 185 mm2, including 2 terminations per 100 meter				109.000	125.00	117.00	0.073
	1 KV cable, PVC insulated, PVC Sheath,installed in conduit, copper; 1 x 300 mm2, including 2 terminations per 100 meter				95.000	109.00	102.00	0.084
free couponing severe	For cables pulled in more than 30 meter run, add for every extra meter		1					5.00%
	WIRES:	•	- 1					3.00%
161 165-0060	0.6 To 1 KV, copper wire, THW or THHN, pulled in conduits, 4 mm2	LM	1	1 Electrician 2 Common Laborers 1 Tools Set	450.000	518.00	484.00	0.018
161 165-0100	0.6 To 1 KV, copper wire, THW or THHN, pulled in conduits, 6 mm2				360.000	414.00	387.00	0.022
161 165-0140	0.6 To 1 KV, copper wire, THW or THHN, pulled in conduits, 10 mm2				294.000	338.00	316.00	0.027
61 165-0180	0.6 To 1 KV, copper wire, THW or THHN, pulled in conduits, 16 mm2				204.000	235.00	219.50	0.039
61 165-0220	0.6 To 1 KV, copper wire, THW or THHN, pulled in conduits, 25 mm2		T		159.000	183.00	171.00	0.050
61 165-0380	0.6 To 1 KV, copper wire, THW or THHN, pulled in conduits, 95 mm2		1		90.000	104.00	97.00	0.089
61 165-0460	0.6 To 1 KV, copper wire, THW or THHN, pulled in conduits, 150 mm2		1		69.000	79.00	74.00	0.116
61 165-0540	0.6 To 1 KV, copper wire, THW or THHN, pulled in conduits, 240 mm2				60.000	69.00	64.50	0.133
61 165-0560	0.6 To 1 KV, copper wire, THW or THHN, pulled in conduits, 300 mm2				54.000	62.00	58.00	0.148
61 165-0740	0.6 To 1 KV, aluminium wire, THW or THHN, pulled in conduits, 6 mm2		T		432.000	497.00	464.50	0.019
61 165-0760	0.6 To 1 KV, aluminium wire, THW or THHN, pulled in conduits, 10 mm2				354.000	407.00	380.50	0.023
61 165-0840	0.6 To 1 KV, aluminium wire, THW or THHN, pulled in conduits, 25 mm2				195.000	224.00	209.50	0.041
61 165-1000	0.6 To 1 KV, aluminium wire, THW or THHN, pulled in conduits, 95 mm2				108.000	124.00	116.00	0.074
61 165-1160	0.6 To 1 KV, aluminium wire, THW or THHN, pulled in conduits, 240 mm2		I		72.000	83.00	77.50	0.111
61 165-1200	0.6 To 1 KV, aluminium wire, THW or THHN, pulled in conduits, 300 mm2	+	T		66.000	76.00	71.00	0.121
61 500	TERMINATIONS							
61 520	CABLE TERMINATIONS:							
61 520-0025 V	Wire connectors, screw type, 0.75 to 6 mm2	EA	1	Electrician	200.000	230.00	215.00	0.000
61 520-0035 V	Nire connectors, screw -on type, insulated, from 1 to 6 mm2		T		190.000	219.00	204.50	0.000
61 520-0040 V	Wire connectors, screw -on type, insulated, from 2 to 10 mm2		T		180.000	207.00	193.50	0.000
61 520-0045 V	Vire connectors,screw -on type,insulated, from 4 to 16 mm2		T		150,000	173.00	161.50	0.000
51 520-0100 T	erminal lugs, solderless for wires, 6 to 25 mm2			153	40.000	46.00	43.00	0.000
61 520-0200 T	erminal lugs, solderless for wires, 50 to 70 mm2		T		36.000	41.00	38.50	0.000
51 520-0325 T	erminal lugs, solderless for wires, 150 mm2		T		20.000	23.00	21.50	0.000
51 520-0350 T	erminal lugs, solderless for wires, 185 mm2	7	T		15.000	17.00	16.00	0.000
51 520-0375 T	erminal lugs, solderless for wires, 240 mm2				10.000	12.00	11.00	0.000
1 520-0400 T	erminal lugs, solderless for wires, 300 mm2		F		8.000	9.00	8.50	0.000
1 520-2000 V	Vire termination, 1 hole lug,crimp side,copper or aluminium, 25 mm2	18		Electrician Crimping Tool	40.000	46.00	43.00	0.200
61 520-2400 W	Vire termination, 1 hole lug,crimp side,copper or aluminium, 50 mm2		Ť		36.000	41.00	38.50	0.222
1 520-3000 W	Vire termination, 1 hole lug.crimp side,copper or aluminium, 95 mm2	-	T	38.16.	24.000	28.00	26.00	0.333
	Vire termination, 1 hole lug,crimp side,copper or aluminium, 150 mm2		T		20.000	23.00	21.50	0.400
	/ire termination, 1 hole lug.crimp side,copper or aluminium, 240 mm2		1		10.000	12.00	11.00	0.800
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CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
161 522	HIGH VOLTAGE CABLE TERMINATIONS:						
161 522-0100	15 KV termination, cable 95 mm2 to indoor switchgear or transformer, premolded cone.	EA	0.125 Electrical Forman 1.000 Electrical Jointer 1.000 Tools Set	6.000	7.00	6.50	1.333
61 522-0300	15 KV termination, cable 150 mm2 to indoor switchgear or transformer, premolded cone.			6.000	7.00	6.50	1.333
61 522-0500	15 KV termination, cable 185 mm2 to indoor switchgear or transformer, premoided			6.000	7.00	6.50	1,333
	15 KV termination, cable 240 mm2 to indoor switchgear or transformer, premoided			5.000	6.00	5.50	1.600
161 522-0700	cone. 15 KV termination, cable 300 mm2 to indoor switchgear or transformer, premolded				830		
161 522-1000	cone.	4	.	5.000	6.00	5.50	1,600
161 800	GROUNDING						
161 810	GROUNDING:		Taring alternative source				
161 810-0030	Ground rod,copper clad, 2.4 m long, 20 mm diameter (3/4"), driven in standard soil.	EA	0.125 Electrical Foreman 1.000 Electrician 1.000 Common laborer 1.000 Power tool	10.000	12,00	11.00	0.800
161 810-0050	Ground rod,copper clad, 2.4 m long, 20 mm diameter (3/4"), driven in hard soil.			5.000	6.00	5.50	1.600
161 810-0100	Ground rod,copper clad, 3.0 m long, 20 mm diameter (3/4"), driven in hard soil.	EA	0.125 Electrical Foreman 1.000 Electrician 1.000 Common laborer 1.000 Power tool	4.000	5.00	4.50	2.000
161 810-0130	Ground rod,copper clad, 4.6 m long, 20 mm diameter (3/4"), driven in ordinary soil.			7.000	8.00	7.50	1.143
161 810-0200	Ground plate,copper 600x 600 mm, 1 meter deep, no excavation included			20.000	23.00	21.50	0.400
161 810-0600	Groundwire,bare copper, 35 mm2			500.000	575.00	537.50	0.016
161 810-0800	Groundwire,bare copper, 95 mm2			175.000	201.00	188.00	0.046
161 810-1000	Groundwire,bare copper, 150 mm2			150.000	173.00	161.50	0.053
161 810-1300	Groundwire,bare copper, 300 mm2			115.000	132.00	123.50	0.070
161 810-2100	Water pipe ground clamps, heavy duty bronze, 32 mm to 50 mm diameter			10.000	12.00	11.00	0.800
161 810-3100	Grounding, brazed connections, 35 mm2 cable			20,000	23.00	21.50	0.400
161 810-3100	Grounding, brazed connections, 95 mm2 cable			12.000	14.00	13.00	0.667
161 810-3200	Grounding,brazed connections, 150 mm2 cable			8.000	9.00	8.50	1.000
161 810-3700	Grounding,brazed connections, 300 mm2 cable	+		5.000	6.00	5.50	1,600
162	BOXES & WIRING DEVICES						
162 100	BOXES						
162 110	OUTLET BOXES	,					
162 110-0020	Outlet Box, pressed steel,octagon or square, 100 mm	EA	1 Electrician	20.000		21.50	0.000
162 110-0100	Octagonal/square box extension cover, 100 mm			36.000	75.00	38.50	0.000
162 110-0250	Square outlet Box blank cover 100 mm			60,000		64.50	0.000
	Square outlet Box 100 mm, plaster ring cover raised	-		36.000	0.000000	38.50	0.000
ARE VIEW	Outlet Box,pressed steel,switch box "utility box" 100 mm x 50 mm	-		25.000		27.00	0.000
162 110-1100	Concrete floor, outlet box,1 gang	•	<u> </u>	6.000	7.00	6,50	0.000
162 130	PULL BOXES & CABINETS: Pull box.sheet metal, NEMA 1, 200 mm, x 200 mm, 100 mm deep	EA	0.125 Electrical Foreman 1.000 Electrician 1.000 Helper	11,000	13.00	12.00	0.727
/22 jul 1600			1.000 Power & Tools Set	P.505	6.00	5.75	1,455
	Pull box, sheet metal, NEMA 1, 400 mm x 500 mm, 200 mm deep			3.500		3.75	2.286
1118-118-	Pull box, sheet metal, NEMA 1, 600 mm x 900 mm, 200 mm deep	++-		6.000		6.50	1.330
	Hinged cabinet, sheet metal, NEMA 1 or NEMA 3R; 300 mm x 400 mm, 150 mm deep.	+-		4.250		4.63	1.88
	Hinged cabinet, sheet metal, NEMA 1 or NEMA 3R; 500 mm x 500 mm, 200 mm deep.	-		3.500		3.75	2.286
	Hinged cabinet, sheet metal, NEMA 1 or NEMA 3R; 600 mm x 900 mm, 200 mm deep.	-		2.750		2.88	2.90
	Hinged cabinet, sheet metal, NEMA 1 or NEMA 3R; 600 mm x 1200 mm, 200 mm deep. Hinged cabinet, sheet metal, NEMA 1 or NEMA 3R; 800 mm x 600 mm, 300 mm deep.	1		2.500		2.75	3.20
	Hinged cabinet, sheet metal, NEMA 1 or NEMA 3R; 900 mm x 900 mm, 300 mm deep.		 	2.000	-	2.00	4.00
	Boy/Cabinets Cast Iron surface mounted NEMA 4 Weatherproof "WP" 150 x1 50	+	 	11.9/21	-	5.75	1.45
162 130-3050	mm,150 mm deep. Box/Cabinets,Cast Iron,surface mounted,NEMA 4,Weatherproof "WP" 300 x 300			5.500			
162 130-3200	mm,150 mm deep.			2.500	3.00	2.75	3.20
	Box/Cabinets, Cast Iron, surface mounted, NEMA 4, Weatherproof "WP" 600 x 450 mm,			1.000	1.00	1.00	8.00

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CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
162 130-3400	Box/Cabinets,Cast Iron,surface mounted,NEMA 4,Weatherproof "WP" 600 x 600 mm, 250 mm deep.			0.750	1.00	0.88	10.66
162 130-3450	Box/Cabinets, Cast Iron, surface mounted, NEMA 4, Weatherproof "WP" 760 x 600 mm, 300 mm deep.			0.500	1.00	0.75	16.00
62 130-3500	Box/Cabinets, Cast Iron, surface mounted, NEMA 4, Weatherproof "WP" 900 x 900 mm, 300 mm deep.			0.350	0.50	0.43	22.85
62 130-6400	Box/Cabinets, Cast Iron, surface mounted, NEMA 12, Dust&Drip tight, 300 x 400 mm, 150 mm deep.			7.000	8.00	7.50	1.14
62 130-6400	Box/Cabinets, Cast Iron, surface mounted, NEMA 12, Dust&Drip tight, 600 x 900 mm, 200 mm deep.			3.500	4.00	3.75	2.28
62 130-6450	Box/Cabinets, Cast Iron, surface mounted, NEMA 12, Dust&Drip tight, 600 x 1050 mm, 200 mm deep.		0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Tools Set	3.500	4.00	3.75	2.28
62 130-6500	Box/Cabinets, Cast Iron, surface mounted, NEMA 12, Dust&Drip tight, 600 x 1200 mm, 200 mm deep.			2.750	3.00	2.88	2.90
62 130-7050	Cabinets for current transformer, single door, 600 x 600 mm, 250 mm deep.			2.250	3.00	2.63	3.55
62 130-7150	Cabinets for current transformer, single door, 900 x 600 mm, 250 mm deep.			1.500	2.00	1.75	5.33
62 130-7300	Cabinets for current transformer, single door, 900 x 900 mm, 250 mm deep.			1.000	1.00	1.00	8.00
62 130-7500	Cabinats for current transformer,double door,1200 x 900 mm, 250 mm deep.			0.900	1.00	0.95	8.88
62 130-7550	Cabinets for current transformer,double door,600 x 600 mm, 300 mm deep.			1.500	2.00	1.75	5.33
62 300	WIRING DEVICES						
62 310	LOW VOLTAGE SWITCHING:			<u> </u>			
62 310-3600	Relays, 120v or 220 V standard	EA	1 Electrician	10.000	12.00	11.00	0.00
62 310-3800	Switch,flush or surface; Standard or Interchangeable.	1		36.000	41.00	38.50	0.00
81/12/07/12/14/14/14	Low voltage switching transformer 120 or 220V to 24V			10.000	12,00	11.00	0.0
	Low voltage switching master control unit up to 25 circuits manual or motorized.			3.000	3.00	3.00	0.0
37450176 007633	Low voltage switching, Silicon Rectifier.	+		10.000	12.00	11.00	0.0
STATE OF THE PARTY	Switch plate, 3 gang, 9 switch, stainless steel	+	20	25,000	29.00	27.00	0.0
62 320	WIRING DEVICES:	*		20.000	23.00	27.00	0.00
	Lighting switch, toggle, single pole, 15A	EA	1 Electrician	32,000	37.00	34.50	0.00
AUNIONE NUMBER	Lighting switch,toggle, 3 Way, 15A			20.000	23.00	21.50	0.00
	Lighting switch,toggle, 4 Way, 15A	+		13.000	15.00	14.00	0.00
AL LANGE AND ALL OF THE ALL OF TH	Dimmer switch, 120V, 1000 watt incandescent, 1 pole	+		20.000	23.00	21.50	0.00
	Dimmer switch, 120 V, 2000 watt incandescent, 1 pole	+		12.000	14.00	13.00	0.00
	Duplex receptacle, 120 or 220 V, grounded, 20 A	+		32.000	37.00	34.50	0.00
		_		24.000	28.00	26.00	0.00
	Duplex receptacle, 120 or 220 V, grounded fault interupting, "GFF", 20 A	+				-	
	Receptacle,single, 250 V, grounded, 30A	-		20,000	23.00	21.50	0,00
	Receptacle, single, 250 V, grounded, 50A	-		16.000	18.00	17.00	0.00
	Single interlocking receptacle, ceiling mounted, 120 or 220 V, grounded, 15 A	-		18.000	21.00	19.50	0.00
	Receptacle, corrosion resistsnt, 20 A, 250 V	+-		18.000	21.00	19.50	0.00
	Receptacle/ switch cover plate	-		80.000	92.00	86.00	0.00
	Plug straight or angle 20 A	-		30,000	35.00	32.50	0.00
CONTRACTOR OF THE	Plug straight or angle 30 A	-		28.000	32.00	30.00	0.00
	Plug straight or angle 50 A	-		20.000	23.00	21.50	0.00
CONTRACTOR OF THE CONTRACTOR O	Connector computer, 3 pole, 4 wire, 20 A			32.000	37.00	34.50	0.00
	Connector computer, 3 pole, 4 wire, 60 A			16,000	18.00	17.00	0.00
	Connector computer, 3 pole, 4 wire,100 A		Middle In	8.000	9.00	8.50	0.00
	Lampholder, keyless		400	20.000	23.00	21.50	. 0.00
	Lampholder, pullchain with receptacle	•		18.000	21.00	19.50	0.00
	MOTORS,STARTERS,BOARDS & SWITCHES STARTERS & CONTROLS	915				- 1	
CHAIR CONTRACT	MOTOR CONTROL CENTERS:		-	1			
	Manufactured structure consisting combination of motor circuit protector &starter full		1 Electrician	- societies			
	voltage non-reversed "FVNR", with control transformer; 10 HP size 1; of 300 mm	EA	1 Tools Set	2.000	2.00	2.00	4,000

CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
163 110-0300	Manufactured structure consisting combination of motor circuit protector &starter full ovoltage non-reversed "FVNR", with control transformer; 50 HP size 1; of 610 mm height			0.750	1.00	0.88	10.66
163 110-0350	Manufactured structure consisting combination of motor circuit protector &starter full oltage non-reversed "FVNR", with control transformer; 75 HP size 1; of 610 mm height			0.650	1.00	0.83	12.30
163 110-0400	Manufactured structure consisting combination of motor circuit protector &starter full voltage non-reversed "FVNR", with control transformer; 100 HP size 1; of 762 mm height			0.550	1.00	0.78	14.54
163 110-0500	Manufactured structure consisting combination of motor circuit protector &starter full voltage non-reversed "FVNR", with control transformer; 200 HP size 1; of 1220 mm height			0.400	1.00	0.70	20.00
163 110-0600	Manufactured structure consisting combination of motor circuit protector &starter full voltage non-reversed "FVNR", with control transformer; 400 HP size 1; of 1830 mm height			0.250	1.00	0.63	32.00
163 110-0900	MCC,300 A,22 KA IC, consisting number structure of starter units, combination of motor circuit protector & starter full voltage non-reversed "FVNR", with control transformer "push buttons & pilot lights;combination of units up to 1.83 m high		0.125 Electrician Forman 1.000 Electrician 3.000 Helpers 0.250 Equip. Operator 0.250 Crane 11 Ton 1.000 Tools Set	0.380	1.00	0.69	26.316
163 130	MOTOR STARTERS & CONTROLS:						
163 130-0100	Magnetic motor starters full voltage non-reversed "FVNR" with enclosure & heaters, 220V, Size 0 - " 5 HP"	EA	0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Power Tools Set	3.250	4.00	3.63	2.462
163 130-0300	220V, Size 2 - "25 HP"			1.500	2.00	1.75	5.333
163 130-0600	Magnetic motor starters full voltage non-reversed "FVNR" with enclosure & heaters, 220V, Size 5 - "200 HP"			0.650	1.00	0.83	12.308
163 130-0700	Magnetic motor starters full voltage non-reversed "FVNR" combination with motor circuit protector, fincluding enclosure & heaters Size 0			2.400	3.00	2.70	3.333
163 130-1000	Magnetic motor starters full voltage non-reversed "FVNR" combination with motor circuit protector, lincluding enclosure & heaters Size 3 - "50 HP"	EA	0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Power Tools Set	0.900	1.00	0.95	8.889
163 130-1200	Magnetic motor starters full voltage non-reversed "FVNR" combination with motor circuit protector, lincluding enclosure & heaters Size 4 - " 100 HP"			0.550	1.00	0.78	14.545
163 130-1600	Magnetic motor starters full voltage non-reversed "FVNR" combination with fused switch, including enclosure & heaters Size 1 - "10 HP"	7.11		1.750	2.00	1.88	4.571
163 130-1800	Magnetic motor starters full voltage non-reversed "FVNR" combination with fused switch, including enclosure & heaters Size 2			1.500	2.00	1.75	5.333
163 130-2200	Magnetic motor starters full voltage non-reversed "FVNR" combination with fused			0.550	1.00	0.78	14.545
163 200	switch,including enclosure & heaters Size 4 BOARDS	*	· · · · · · · · · · · · · · · · · · ·	0.000	1.00	0.70	13.030
163 205	CIRCUIT BREAKERS (in enclosure):						
103 203	CINCOTT BREAKERS (III eticlosure).		0.125 Electrical Foreman				
163 205-0400	Circuit Breakers in NEMA 1 enclosure; 600V, 3 pole, 100A	EA	1.000 Electrician 1.000 Helper 1.000 Power Tools	3.500	4.00	3.75	2.286
163 205-0600	Circuit Breakers in NEMA 1 enclosure; 600V, 3 pole, 225A			2.250	3.00	2.63	3.556
163 205-0700	Circuit Breakers in NEMA 1 enclosure; 600V, 3 pole, 400A			1.500	2.00	1.75	5.333
163 205-1000	Circuit Breakers in NEMA 1 enclosure; 600V, 3 pole, 800A	+	+	0.750	1.00	0.88	10.667
163 225	FUSE CABINETS:						
163 225-0200	Fuse cabinets,127/220 V, 3 wire, 4 branches 30A,including plug fuses.	EA	0.125 Electrical Foreman 1.000 Electrician 1.000 Heliper 1.000 Power Tools	6.000	7.00	6 50	1.333
163 225-0500	Fuse cabinets,127/220 V, 3 wire, 12 branches 30A,including plug fuses.			3.000	3.00	3.00	2.667
163 240	METER CENTERS:		n and the same of				
63 240-2600	Meter board, fiberglass, rainproof, 3P, 4W, 127/227 V, consisting, Molded case C.B.& meter up to 200 A	EA	0.125 Electrical Foreman 1.000 Electrician 1.000 Heliper 1.000 Power Tools	1.250	1.00	1.13	6.400
63 240-2610	Meter board,fiberglass,rainproof, 3P, 4W, 127/227 V, consisting main lugs 300 A & 3 each molded case C.B.& meter up to 100 A			0.620	1.00	0.81	12.903
63 240-2630	Meter board,fiberglass,rainproof, 3P, 4W, 127/227 V, consisting, main lugs 600 A & 6 each molded case C.B.& meter			0.430	1.00	0.72	18.605
63 240-2660	Meter board, fiberglass, rainproof, 3P, 4W, 127/227 V, consisting, main lugs 1000 A & 10 each molded case C.B.& meter			0.280	0.50	0.39	28.571
	Meter board, fiberglass, rainproof, 3P, 4W, 127/227 V, consisting, main circuit breaker			0.400	1.00	0.70	20.000
163 245	PANELBOARDS(Commercial use)		.	0.100	1.1.0		
55 245	i Alexandra (volimeral use)		0.125 Electrical Foreman		 		
	Panelboard 2 Phase 3 Wire,100 Amps Main lugs only (M.L.O); 127/220 V,including 10 branches,bolt-on type circuit breakers, 1P-20A	EA	1.000 Electrician 1.000 Common Laborer 1.000 Power Tool	1.237	1.00	1.12	6.467

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CSI	ITEM DESCRIPTION	UN	ИT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
163 245-0250	Panelboard 2 Phase 3 Wire,100 Amps Main lugs only (M.L.O); 127/220 V,including 18 branches,bolt-on type circuit breakers, 1P-20A			,	1.026	1.00	1.01	7.79
63 245-0350	Panelboard 2 Phase 3 Wire, 225 Amps Main lugs only (M.L.O); 127/220 V,including 24 branches, bolt-on type circuit breakers, 1P-20A				0.706	1.00	0.85	11.33
163 245-0400	Panelboard 2 Phase 3 Wire, 225 Amps Main lugs only (M.L.O); 127/220 V,including 30 branches, bolt-on type circuit breakers, 19-20A				0.649	1.00	0.82	12.32
63 245-0550	Panelboard 2 Phase 3 Wire, 225 Amps Main lugs only (M.LO); 127/220 V,including 42				0.558	1.00	0.78	14.33
163 245-0600	branches,bolt-on type circuit breakers, 1P-20A Panelboard 3 Phase 4 Wire,100 Amps Main lugs only (M.L.O); 127/220 V,including 12		-		1,143	1.00	1.07	6.99
63 245-0700	branches, bolt-on type circuit breakers, 1P-20A Panelboard 3 Phase 4 Wire, 100 Amps Main lugs only (M.L.O); 127/220 V, including 20				0.960	1.00	0.98	8.33
63 245-0800	branches,bolt-on type circuit breakers, 1P-20A Panelboard 3 Phase 4 Wire,100 Amps Main lugs only (M.L.O); 127/220 V,including 30				0.800	1.00	0.90	10.00
63 245-0950	branches, bolt-on type circuit breakers, 1P-20A Panelboard 3 Phase 4 Wire, 225 Amps Main lugs only (M.L.O); 127/220 V,including 36				0.571		0.79	
163 245-1000	branches,bolt-on type circuit breakers, 1P-20A Panelboard 3 Phase 4 Wire, 225 Amps Main lugs only (M.L.O); 127/220 V,including 42		-		0.571	1.00	07/072	14.01
esservices in season.	branches, bolt-on type circuit breakers, 1P-20A Panelboard 3 Phase 4 Wire, 100 Amps Main lugs only (M.L.O); 220/380 V,including 20				9000000	1.00	0.77	11528282
63 245-1300	branches, bolt-on type circuit breakers, 1P-20A Panelboard 3 Phase 4 Wire, 225 Amps Main lugs only (M.L.O); 220/380 V,including 24	-	-		0.984	1.00	0.99	8.13
63 245-1350	branches,bolt-on type circuit breakers, 1P-20A Panelboard 3 Phase 4 Wire, 225 Amps Main lugs only (M.L.O); 220/380 V,including 30		_		0.842	1.00	0.92	9.50
63 245-1400	branches,bolt-on type circuit breakers, 1P-20A				0.747	1.00	0.87	10.71
63 245-1460	Panelboard 3 Phase 4 Wire, 225 Amps Main lugs only (M.L.O); 220/380 V,including 42 branches,bolt-on type circuit breakers, 1P-20A		-0.5		0.600	1.00	0.80	13.33
163 245-1750	Panelboard 2 Phase 3 Wire,100 Amps Main Circuit Breaker; 127/220 V,including 20 branches,bolt-on type circuit breakers, 1P-20A				0.984	1.00	0.99	8.13
63 245-1800	Panelboard 2 Phase 3 Wire, 225 Amps Main Circuit Breaker; 127/220 V,including 30 branches,bolt-on type circuit breakers, 1P-20A				0.649	1.00	0.82	12.32
63 245-1850	Panelboard 2 Phase 3 Wire, 225 Amps Main Circuit Breaker; 127/220 V,including 42 branches,bolt-on type circuit breakers, 1P-20A				0.558	1.00	0.78	14.33
163 245-1900	Panelboard 2 Phase 3 Wire, 400 Amps Main Circuit Breaker; 127/220 V,including 30 branches, bolt-on type circuit breakers, 1P-20A				0.510	1.00	0.76	15.68
63 245-1950	Panelboard 2 Phase 3 Wire, 400 Amps Main Circuit Breaker; 127/220 V,including 42 branches,bolt-on type circuit breakers, 1P-20A	E	A	0.125 Electrical Foreman 1.000 Electrician 1.000 Common Laborer 1.000 Power Tool	0.453	1.00	0.73	17.66
63 245-2000	Panelboard 3 Phase 4 Wire 100 Amps Main Circuit Breaker; 127/220 V,including 24 branches bolt-on type circuit breakers, 1P-20A				0.889	1.00	0.94	8.99
63 245-2100	Panelboard 3 Phase 4 Wire,100 Amps Main Circuit Breaker; 127/220 V,including 30 branches,bolt-on type circuit breakers, 1P-20A				0.800	1.00	0.90	10.00
63 245-2250	Panelboard 3 Phase 4 Wire, 225 Amps Main Circuit Breaker; 127/220 V,including 42 branches bolt-on type circuit breakers, 1P-20A				0.533	1.00	0.77	15.00
63 245-2300	Panelboard 3 Phase 4 Wire, 400 Amps Main Circuit Breaker; 127/220 V, including 42 branches, bolt-on type circuit breakers	1			0.419	1.00	0.71	19.09
63 245-2350	Panelboard 3 Phase 4 Wire, 600 Amps Main Circuit Breaker; 127/220 V,including 42 branches,bolt-on type circuit breakers,				0.363	1.00	0.68	22.03
	Panelboard 3 Phase 4 Wire, 100 Amps Main Circuit Breaker; 220/380 V, including 24	1			0.888	1.00	0.94	9.00
63 245,2550	branches,bolt-on type circuit breakers, 1P-20A Panelboard 3 Phase 4 Wire,100 Amps Main Circuit Breaker; 220/380 V,including 30	7			0.784	1.00	0.89	10.204
63 245-2650	branches,bolt-on type circuit breakers, 1P-20A Panelboard 3 Phase 4 Wire, 225 Amps Main Circuit Breaker; 220/380 V,including 42				0.638	1.00	0.82	12.539
	branches,bolt-on type circuit breakers, 1P-20A PANELBOARD & LOAD CENTER CIRCUIT BREAKERS:	•	_					
63 250-0100	Install Circuit Breaker,bolt-on type,10 000 Amp.Interrupting Capacity, 127V,1 Pole, 15 to 50A, in panel	EA	1	0.125 Electrical Foreman 1.000 Electrician 1.000 Tools Set	15.000	17.00	16.00	0.533
63 250-0300	Install Circuit Breaker, bolt-on type, 10 000 Amp. Interrupting Capacity, 127V,1 Pole, 70A, in panel				10.000	12.00	11.00	0.800
	Install Circuit Breaker, bolt-on type, 10 000 Amp. Interrupting Capacity, 220V, 2 Pole, 15 to 50A, in panel				6.700	8.00	7.35	1.194
62 250 0600	Install Circuit Breaker, bolt-on type, 10 000 Amp. Interrupting Capacity, 220V, 2 Pole, 100A, in panel	1			4.600	5.00	4.80	1.739
63 250-0700	Install Circuit Breaker, bolt-on type, 10 000 Amp. Interrupting Capacity, 220V, 3 Pole, 15 to 60A, in panel	5			5.200	6.00	5.60	1.530
53 250-0900	Install Circuit Breaker, bolt-on type, 10 000 Amp. Interrupting Capacity, 220V, 3 Pole, 100A,				3.200	4.00	3.60	2.500
53 350 1000	in panel Install Circuit Breaker, bolt-on type, 22 000 Amp. Interrupting Capacity, 220V, 2 Pole, 70 to 225A, in panel				2.900	3.00	2.95	2.759
63 250-1100	Install Circuit Breaker, bolt-on type, 22 000 Amp. Interrupting Capacity, 220V,3 Pole, 70	1		AT THE	2.300	3.00	2.65	3.478
63 250-1200	to225A, in panel Install Circuit Breaker,boit-on type,14 000 Amp.Interrupting Capacity, 220V,1 Pole,15 to	+			15.000	17.00	16.00	0.533
63 250-1300	30A, in panel Install Circuit Breaker,bolt-on type,22 000 Amp.Interrupting Capacity, 380V,2 Pole,70	+	-		2.900	3.00	2.95	2.759
AND A CONTRACTOR	to225A, in panel Install Circuit Breaker,bolt-on type,22 000 Amp.Interrupting Capacity, 380V,3 Pole,70	+	-				Orocent	- Cassums
	to225A, in panel	+		+	2.300	3.00	2.65	3.478

CSI	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
163 260-2000	Switchboard incoming main service section,copper bus bars, including CT's with compartments and Main Air Circuit Breaker drawout Type:127/220 V, 3 Phase 4 Wire, 1000 Amp.	EA	0.125 Electrical Foreman 1.000 Electrician 2.000 Common Laborer 1.000 Hydraukc Jacks 1.000 Tools Set	0.750	1.00	0.88	21.33
163 260-2200	Switchboard incoming main service section, copper bus bars, including CT's with compartments and Main Air Circuit Breaker drawout Type;127/220 V, 3 Phase 4 Wire, 1600 Amp.			0.660	1.00	0.83	24.24
163 260-2300	2000 Amp.			0.600	1.00	0.80	26.66
163 260-2400	Switchboard incoming main service section, copper bus bars, including CT's with compartments and Main Air Circuit Breaker drawout Type;127/220 V, 3 Phase 4 Wire, 2500 Amp.			0.540	1.00	0.77	29.63
163 260-2500	Switchboard incoming main service section,copper bus bars, including CT's with compartments and Main Air Circuit Breaker drawout Type;127/220 V, 3 Phase 4 Wire, 3000 Amp.			0.480	1,00	0.74	33.33
163 260-2600	Switchboard incoming main service section,copper bus bars, including CT's with compartments and Main Air Circuit Breaker drawout Type;127/220 V, 3 Phase 4 Wire, 4000 Amp.			0.390	1.00	0.70	41.02
163 260-4600	Switchboard incoming main service section,copper bus bars, including CT's with compartments and Main Molded Case Circuit Breaker (MCCB), 127/220 V, 3 Phase 4 Wire, 600 Amp.			1.200	1.00	1.10	13.33
163 260-5000	Wire, 1200 Amp			0.750	1.00	0.88	21.333
163 260-5000	Switchboard incoming main service section,copper bus bars, including CT's with compartments and Main Molded Case Circuit Breaker (MCCB), 127/220 V, 3 Phase 4 Wire, 1600 Amp.			0.660	1.00	0.83	24.242
163 260-5000	Switchboard incoming main service section, copper bus bars, including CT's with compartments and Main Molded Case Circuit Breaker (MCCB), 127/220 V, 3 Phase 4 Wire, 2500 Amp.	ļ		0.540	1.00	0.77	29.63
63 264	SWITCHBOARDS, DISTRIBUTION SECTION:	NAC - C					
163 264-0200	Switchboard.distribution section.Copper bus bars, without breakers; 127/220 V or 220/380 V, 3 Phase, 4 Wire, 600 A.	EA	0.125 Electrical Foreman 1.000 Electrician 2.000 Common Laborer 1.000 Hydraulic Jacks 1.000 Tools Set	1.080	1,00	1.04	14.81
163 264-0600	Switchboard, distribution section, Copper bus bars, without breakers; 127/220 V or 220/380 V, 3 Phase, 4 Wire, 1600 A.	EA	0.125 Electrical Foreman 1.000 Electrician 2.000 Common Laborer 1.000 Hydraulic Jacks 1.000 Tools Set	0.594	1.00	0.80	26.93
163 264-0700	Switchboard distribution section, aluminum bus bars, without breakers; 127/220 V or 220/380 V, 3 Phase, 4 Wire, 2000 A.			0.540	1.00	0.77	29.63
163 264-0800	Switchboard distribution section aluminum bus bars, without breakers; 127/220 V or 220/380 V, 3 Phase, 4 Wire, 2500 A.			0.486	1.00	0.74	32.92
163 264-0900	Switchboard, distribution section, aluminum bus bars, without breakers; 127/220 V or 1220/380 V, 3 Phase, 4 Wire, 3000 A.			0.432	1.00	0.72	37.03
163 266	SWITCHBOARDS, FEEDER SECTION:		I	1			
10/2011/2000	Switchboards, feeder section group mounted circuit breakers frame upto 60A, 1 pole	EA	0.125 Electrical Foreman 1.000 Electrician 1.000 Tools Set	15.000	17.00	16.00	0.53
163 266-0280	Switchboards, feeder section group mounted circuit breakers frame upto 100A, 1 pole			10.000	12.00	11.00	0.80
63 266-0420	Switchboards,feeder section group mounted circuit breakers frame 225 A, 3 pole			2.300	3.00	2.65	3.47
63 266-0430	Switchboards, feeder section group mounted circuit breakers frame 400 A, 3 pole			1.600	2.00	1.80	5.000
63 266-0460	Switchboards, feeder section group mounted circuit breakers frame 600 A, 3 pole			1.200	1.00	1.10	6.66
163 266-0490	Switchboards, feeder section group mounted circuit breakers frame 1200 A, 3 pole			0.800	1.00	0.90	10.000
163 266-0500	Switchboards,feeder section group mounted fused switch 30/30A, 2 pole			6.700	8.00	7.35	1.194
163 266-0600	Switchboards,feeder section group mounted fused switch 100/100A, 2 pole		<u> </u>	4.600	5.00	4.80	1.739
163 268	SWITCHBOARD INSTRUMENTS:						
163 268-0100	Switchboard instruments 3 phase, 4 wire,AC indicating,ammeter or voltmeter & switch	EA	0.125 Electrical Foreman 1.000 Electrician 1.000 Tools Set	10.000	12.00	11.00	0.800
63 268-0300	Switchboard instruments 3 phase, 4 wire,AC indicating,wattmeter			10.000	12.00	11.00	0.800
63 268-0400	Switchboard instruments 3 phase, 4 wire,AC recording,ammeter or voltmeter			5.000	6.00	5.50	1.600
63 268-0600	Switchboard instruments 3 phase, 4 wire,ground fault protection.			3.250	4.00	3.63	2 463
63 268-0800	Switchboard Instruments Current transformers, up to 2000 A high side			5.000	6.00	5.50	1.600
63 268-0850	Switchboard instruments Current transformers, up to 4000 A high side			4.000	5.00	4.50	2.00
163 268-1300	Switchboard instruments fused potential transformer, 600V		7	8.000	9.00	8 50	1.00
	Const. (2019) (2019)						

CSI	ITEM DESCRIPTION	UNIT	The second	REW UCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
163 310-0200	Lighting contactor, electrically or mechanically held, 600 V, 3P - 30 A	EA	0.125 Electr 1.000 Electri 1.000 Helper 1.000 Power		8.000	9.00	8.50	1.00
163 310-0400	Lighting contactor, electrically or mechanically held, 600 V, 3P - 100 A		T	T	5.500	6.00	5.75	1.45
163 310-0500	Lighting contactor, electrically or mechanically held, 600 V, 3P - 200 A		1		3.000	3.00	3.00	2.66
163 320	CONTROL STATIONS:	-		1,				
163 320-0050	Control stations,NEMA 1, heavy duty,stop/start	EA	1 Electrician 1 Helper 1 Power Too	ls.	12.000	14.00	13.00	0.66
163 320-0100	Control stations, NEMA 1, stop/start.pilot light				10.000	12.00	11.00	0.80
163 320-0200	Control stations,NEMA 1, hand/off/automatic				10.000	12.00	11.00	0.80
163 320-0400	Control stations,NEMA 1, stop/start/reverse		1		8.000	9.00	8.50	1.00
163 350	RELAYS:		-		- 11			1-500
163 350-0050	Relay 600 V, 1P -12A, NEMA -1 enclosure	EA	1 Electrician 1 Helper 1 Power Tool	is	8.000	9.00	8.50	1.00
163 350-0100	Relay 600 V, 2P -12A, NEMA - 1 enclosure				7.500	9.00	8.25	1.06
163 350-0200	Relay 600 V, 4P -12A, NEMA - 1 enclosure	1	1	1	6.750	8.00	7.38	1.18
163 360	SAFETY SWITCHES:		-	*				00000
163 360-0200	Safety switch, general duty or heavy duty, 600 V, 3P- 60 A,fused.	EA	0.125 Electric 1.000 Electric 1.000 Helper 1.000 Power	cian	3.000	3.00	3.00	2.667
163 360-0300	Safety switch, general duty or heavy duty, 600 V, 3P- 100 A,fused.				2.750	3.00	2.88	2.909
163 360-0400	Safety switch, general duty or heavy duty, 600 V, 3P- 200 A,fused.				1.900	2.00	1.95	4.21
163 360-0500	Safety switch, general duty or heavy duty, 600 V, 3P- 400 A,fused.				1.250	1.00	1.13	6.400
163 360-0600	Safety switch, general duty or heavy duty, 600 V, 3P- 600 A,fused.				0.900	1.00	0.95	8.88
163 500	MOTORS:	_						
163 520	MOTORS:							
163 520-0100	Motors up to 480 V, 60 HZ Dripproof, 1800 RPM, 1 HP, 220 V	EA	1 Electrician		7.000	8.00	7.50	1.143
	Motors up to 480 V, 60 HZ Dripproof, 1800 RPM, 5 HP, 220 V	Т	1 Tools Set		6.460	7.00	6.73	1.238
	Motors up to 480 V, 60 HZ Dripproof, 1800 RPM, 10 HP, 220 V	+	(4)		5.450	6.00	5.73	1.468
	Motors up to 480 V, 60 HZ Dripproof, 1800 RPM, 20 HP, 220 V	EA	1 Electrician		4.120	5.00	4.56	1.942
	Motors up to 480 V, 60 HZ Dripproof, 1800 RPM, 50 HP, 220 V	T	1 Tools Set		2.730	3.00	2.87	
	Motors up to 480 V, 60 HZ Dripproof, 1800 RPM, 100 HP, 220 V	+	-		1.710	2.00	1.86	2.930 4.678
1 (24) 3 (24) 2 (24) (24)	Motors up to 480 V, 60 HZ Dripproof, 1800 RPM, 200 HP, 220 V	+					-	
	Motors up to 480 V, 60 HZ Dripproof, 1800 RPM, 50 HP, 380 V	+			0.860 3.680	1.00	0.93	9.302
ALTERNATION CHESTON	Motors up to 480 V, 60 HZ Dripproof, 1800 RPM, 100 HP, 380 V	+			2.230	3.00	3.84 2.62	3.587
Contract Contract Contract	Motors up to 480 V, 60 HZ Dripproof, 1800 RPM, 200 HP, 380 V	+			1.110	1.00		7.207
	Motors up to 480 V, 60 HZ Dripproof, 1800 RPM, 200 HP, 480 V	+	-		1.200	53 G Pales	1.06	(5/8/35V)
THE PROPERTY OF THE PARTY OF	TRANSFORMERS & BUS DUCTS	*			1.200	1.00	1.10	6.667
HARONSK DI	TRANSFORMERS & BUS DUCTS							
	DRY TYPE TRANSFORMER:					-	-	757
	Ory type transformer, single phase, 440 or 240 V primary 220 or 120 V secondary. 5 kVA	EA	0.125 Electrica 1.000 Electrica 1.000 Helper	an	1.700	2.00	1.85	4.706
	Ory type transformer, single phase, 440 or 240 V primary 220 or 120 V secondary, 10		1.000 Tools S		1.400	2.00	1.70	5.714
64 120-1500	Ory type transformer, single phase, 440 or 240 V primary 220 or 120 V secondary, 25 VA		0.125 Electrica 2.000 Electrica 1.000 Helper 1.000 Tools Se	ans	1.560	2.00	1.78	5.128
	Ory type transformer, single phase, 440 or 240 V primary 220 or 120 V secondary, 50 IVA			2.0	1.000	1.00	1.00	8.000
64 120-2100	Ory type transformer, single phase, 440 or 240 V primary 220 or 120 V secondary, 75 VA				0.850	1.00	0.93	9.412
	Dry type transformer, single phase, 480V Primary 20/240 V secondary, non vent, 25 kVA			P. 11	1.400	2.00	1.70	5.714
	Dry type transformer, 3 phase, 220/380 V primary,127/220 V secondary,ventilated, 3 VA		0.125 Electrica 1.000 Electrica 1.000 Helper		1.200	1.00	1.10	6.667

CSI	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
164 120-3100	Dry type transformer, 3 phase, 220/380 V primary,127/220 V secondary,ventilated, 15 kVA		0.125 Electrical Foreman 2.000 Electricians 1.000 Helper 1.000 Tools Set	1,460	2.00	1.73	5.47
164 120-3700	Dry type transformer, 3 phase, 220/380 V primary,127/220 V secondary,ventilated, 75 kVA		0.250 Electrical Foreman 2.000 Electricians 1.000 Helper 0.250 Equipment Operator 0.125 Truck Crane 11 Ton 1.000 Tools Set	1,470	2.00	1.74	6.80
164 120-4100	Dry type transformer, 3 phase, 220/380 V primary,127/220 V secondary,ventilated,150 kVA			1.020	1.00	1.01	9.804
164 120-4500	Dry type transformer, 3 phase, 220/380 V primary,127/220 V secondary,ventilated, 300 kVA			0.750	1.00	0.88	13.33
164 120-4700	Dry type transformer, 3 phase, 220/380 V primary, 127/220 V secondary,ventilated, 500 kVA			0.580	1.00	0.79	17.24
164 120-4800	Dry type transformer, 3 phase, 220/380 V primary, 127/220 V secondary, ventilated, 750 kVA			0.450	1.00	0.73	22,22
164 120-5000	Dry type transformer, 3 phase, 13800 V primary, 127/220 V or 220/380 V secondary, 100 kVA			0.930	1.00	0.97	18.28
164 120-5200	Dry type transformer, 3 phase, 13800 V primary, 127/220 V or 220/380 V secondary, 1500 kVA			0.510	1.00	0.76	33.33
164 120-5300	Dry type transformer, 3 phase, 13800 V primary, 127/220 V or 220/380 V secondary, 1750 kVA			0.400	1.00	0.70	42.500
164 120-5400	Dry type transformer, 3 phase, 13800 V primary, 127/220 V or 220/380 V secondary, 1000 kVA			0.370	1.00	0.69	45.94
164 120-5500	Dry time transformer 3 phase 13800 V primary 127/220 V or 220/380 V secondary.			0.310	1.00	0.66	54.83
164 120-5600	Dry type transformer, 3 phase, 13800 V primary, 127/220 V or 220/380 V secondary, 2000 kVA			0.270	0.50	0.39	62.96
164 120-5700	Dry type transformer, 3 phase, 13800 V primary, 127/220 V or 220/380 V secondary,			0.230	0.50	0.37	73.91
164 120-7000	2500 kVA For dry type transformer installation in buildings floor, other than grade level add per	PERCEN	σ	0.02	0.05	0.03	
164 140	ISOLATING PANELS:						
164 140-0100	Isolating panel in hospital critical care area or operating rooms used with isolating transformer, 8 circuits 3 KVA	EA	0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Tools Set	0.900	1.00	0.95	8.88
164 140-0400	Isolating panel in hospital critical care area or operating rooms used with isolating transformer, 8 circuits 7.5 KVA			0.850	1.00	0.93	9,41
164 140-0600	Isolating panel in hospital critical care area or operating rooms,used with isolating transformer, 8 circuits 10 KVA			0.800	1.00	0.90	10.00
164 140-0600	Isolating panel in hospital X-RAY systems, used with isolating transformer, 8 circuits 15 KVA			0.750	1.00	0.88	10.66
164 140-0100	Isolating panel in hospital X- RAY systems, used with isolating transformer, 8 circuits 25 KVA			0.700	1.00	0.85	11.42
164 160	OIL OR SILICON FILLED TRANSFORMER:		Pr				
164 160-0100	Oil filled transformer pad mounted, Primary: Delta or Star, 13.8 kV, With taps; 127/220 or 220/380 V Secondary 3 Phase, 150 KVA	EA	0.125 Electrical Forman 2.000 Electricians 1.000 Helper 0.125 Equipment Operator 0.125 Truck Crane 11 Ton 2.000 Tools Set	0.700	1.00	0.85	24.28
164 160-0200	Oil filled transformer pad mounted, Primary Delta or Star, 13.8 kV, With taps; 127/220 or 220/380 V Secondary 3 Phase, 300 KVA			0.520	1.00	0.76	32.69
164 160-0300	Oil filled transformer pad mounted, Primary; Delta or Star, 13.8 kV, With taps; 127/220 or 220/380 V Secondary 3 Phase, 500 KVA			0.490	1.00	0.75	34.69
164 160-0400	Oil filled transformer pad mounted Primary/Delta or Star, 13.8 kV With taps: 127/220 pr			0.380	1.00	0.69	44,73
164 160-0500	Oil filled transformer pad mounted Primary/Delta or Star, 13.8 kV With taps: 127/220 or			0.350	1.00	0.68	48.57
164 160-0600	Oil filled transformer had mounted Primary Delta or Star, 13.8 kV With tans, 127/220 or			0.300	0.75	0.53	56.66
164 160-0700	Oil filled transformer pad mounted Primary/Delta or Star, 13.8 kV With taps: 127/220 or			0.250	0.50	0.38	68.00
164 160-0800	Oil filled transformer and mounted Primany Delta or Star, 13.8 kV With tans: 127/220 or			0.190	0.50	0.35	89.47
164 200	BUS DUCTS/BUSWAYS						
164 220	COPPER BUS DUCT:		*			5	
164 220-1500	Copper bus duct plug-in,indoor, 3 pole 4 wire,straight section, 600 A.	LM	0.125 Electrical Foreman 1.000 Special Electrician 1.000 Helper 0.125 Equip. Operator 0.125 Truck Crane 11 Ton 1.000 Tools Set	5.000) 60c	5.50	1 8,0
164 220-2450	Copper bus duct plug-in,indoor, 3 pole 4 wire,straight section, 1000 A.			3.500	4.00	3.75	2.57
104 000 0000	Copper bus duct plug-in,indoor, 3 pole 4 wire,straight section, 1600 A.			2.500	3.00	2.75	3.60

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CSI	ITEM DESCRIPTION	UNI	T CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
164 220-2510	Copper bus duct plug-in,indoor, 3 pole 4 wire,straight section, 2000 A.	IT		1,950	2.00	1.98	4,61
164 220-2520	Copper bus duct plug-in,indoor, 3 pole 4 wire,straight section, 2500 A.			1.550	2.00	1.78	5.80
164 220-2550	Copper bus duct plug-in,indoor, 3 pole 4 wire,straight section, 3000 A.			1.200	1.00	1.10	7.50
164 220-2600	Copper bus duct plug-in,indoor, 3 pole 4 wire,straight section, 4000 A.			0.900	1.00	0.95	10.00
164 220-2800	Copper bus duct plug-in,outdoor "WP", including framed supports,3 pole 4 wire feeder Section, 2000 A			1.500	2.00	1.75	6.00
164 220-2900	Conner hus duct plug-in outdoor "WP" including framed supports 3 pole 4 wire feeder	T		0.900	1.00	0.95	10.000
164 220-3000	Copper buy dust plust in outdoor "WP" including framed supports 3 pole 4 wire feeder			0.700	1.00	0.85	12.85
164 220-3300	Copper bus duct accessories: Elbow, 600 A			2.000	2.00	2.00	4.500
	Copper bus duct accessories: Elbow, 1600 A	\vdash	1	1.500	2.00	1.75	6.000
	Copper bus duct accessories: Elbow, 2000 A		1	1.200	1	1.10	7.500
SATEL STATE OF STATE	Copper bus duct accessories: Elbow, 2500 A		1	1.000	2000	1.00	9.000
7250 UAUSA - 7450 C	Copper bus duct accessories: Elbow, 3000 A		+	0.900		0.95	10.000
	Copper bus duct accessories: Elbow, 4000 A			0.800		0.90	11.250
	PROFESSION OF THE CONTROL OF THE CON	+		20.000		21.50	0.450
TSTER VISE	Copper bus duct accessories: End box, 600 A	+	 	15.000	2000000	16.00	0.600
	Copper bus duct accessories: End box, 1600 A	+	-	13.000	15.00	14.00	0.692
	Copper bus duct accessories: End box, 2000 A	+	-	- Control Control	Michigan St.	1000000	500000
	Copper bus duct accessories: End box, 2500 A	-		12.000	14.00	13.00	0.750
	Copper bus duct accessories: End box, 3000 A	+		10.000	12.00	11.00	0.900
Maria de la composición del composición de la composición de la composición del composición de la composición del composición de la composición de la composición del compos	Copper bus duct accessories: End box, 4000 A	+	 	8.000	9.00	8.50	1.125
	Copper bus duct accessories: Cable tap box, 600 A	-		1.750	2.00	1.88	5.143
	Copper bus duct accessories: Cable tap box, 1600 A	-		1.000	1.00	1.00	9.000
	Copper bus duct accessories: Cable tap box, 2000 A	-	 	0.750	1.00	0.88	12.000
	Copper bus duct accessories: Cable tap box, 2500 A	-	4	0.500	1.00	0.75	18.000
	Copper bus duct accessories: Switchboard stub, 1600 A	-		2.000	2.00	2.00	4.500
164 220-6325	Copper bus duct accessories. Switchboard stub, 2500 A	-		1.500	2.00	1.75	6.000
	Copper bus duct accessories: Switchboard stub, 3000 A	-		1.250	1.00	1.13	7.200
164 220-6375	Copper bus duct accessories: Switchboard stub, 4000 A			1.000	1.00	1.00	9.000
164 220-6900	Copper bus duct accessories: Tee fitting, 1600 A			0.750	1.00	0.88	12,000
164 220-6950	Copper bus duct accessories: Tee fitting, 2000 A			0.550	1.00	0.78	16.364
164 220-7000	Copper bus duct accessories: Tee fitting, 2500 A			0.500	1.00	0.75	18.000
164 220-7400	Copper bus duct accessories: Plug-in Switch, 100 A	+	+	4.000	5.00	4.50	2.000
164 220-7600	Copper bus duct accessories: Plug-in Switch, 400 A	LM	0.125 Electrical Foreman 1,000 Special Electrician 1,000 Heiper 1,000 Tools Set	1.250	1.00	1.13	6.400
164 220-8100	Copper bus duct accessories: Plug-in Molded Case Circuit Breaker (MCCB), 70 to 100			5.000	6.00	5.50	1.600
164 220-8200	Copper bus duct accessories: Plug-in Molded Case Circuit Breaker (MCCB), 150 to 225 A			3,000	3.00	3.00	2.667
164 220-8300	Copper bus duct accessories: Plug-in Molded Case Circuit Breaker (MCCB), 250 to 400 A			1.250	1.00	1.13	6.400
64 220-8400	Copper bus duct accessories; Plug-in Molded Case Circuit Breaker (MCCB), 500 to 600 A			0.850	1.00	0.93	9.412
64 220-8500	Copper bus duct accessories: Plug-in Molded Case Circuit Breaker (MCCB), 700 to 800 A			0.750	1.00	0.88	10.667
64 220-8600	Copper bus duct accessories: Plug-in Molded Case Circuit Breaker (MCCB), 900 to 1000 A			0.600	1.00	0.80	13.333
64 220-8700	Copper bus duct accessories: Plug-in Molded Case Circuit Breaker (MCCB), 1200 A		1 1 1 1 1	0.450	1.00	0.73	17.778
165	POWER SYSTEMS & CAPACITORS	Ė				That	
165 100	POWER SYSTEMS	5 7	197				Y
165 120	GENERATOR SET: COMPLETE WITH ELECTROMECH CONNECTIONS UP TO 20 METERS DISTANCE		#				
165 120-0400	Generator set,gas or gasoline operated includes battery charger, muffler & transfer switch 3 phase, 4 wire, up to 220/380 V; 15 KW	EA	1.000 Skilled Forman 3.000 Skilled Workers 0.250 Equip. Operator 2.000 Common Laborer 0.250 Crane 11 Ton 2.000 Power Tools, Hydraulid 1.000 Tools Set	0.900	1.00	0.95	28.889

CSI	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
165 120-0600	Generator set,gas or gasoline operated,includes battery,charger.muffler & transfer switch 3 phase, 4 wire, up to 220/380 V; 70 KW	T		0.625	1.00	0.81	41.60
165 120-0800	Generator set,gas or gasoline operated,includes battery,charger,muffler & transfer			0.450	1.00	0.73	57,77
165 120-2300	switch 3 phase, 4 wire, up to 220/380 V; 115 KW Generator set,diesel engine,including battery,charger,muffler,transfer.switch & daily fuel			0.300	0.50	0.40	86.66
	tank, 3 Phase, 4 Wire Up to 220/380 V; Capacity 100 KW Generator set diesel engine,including battery,charger,muffler,transfer switch & daily fuel	-		-AND DEC	00000	A TRECORD	1110000000
165 120-2500	tank, 3 Phase, 4 Wire Up to 220/380 V; Capacity 150 KW			0.275	0.50	0.39	94.54
165 120-2600	Generator set, diesel engine, including battery, charger, muffler, transfer switch & daily fuel tank, 3 Phase, 4 Wire Up to 220/380 V; Capacity 200 KW			0.250	0.50	0.38	104.000
165 120-2700	Generator set, diesel engine, including battery, charger, muffler, transfer switch & daily fuel tank, 3 Phase, 4 Wire Up to 220/380 V; Capacity 300 KW			0.225	0.50	0.36	115,556
165 120-2800	Generator set, diesel engine including battery, charger, muffler, transfer switch & daily fuel tank, 3 Phase, 4 Wire Up to 220/380 V; Capacity 400 KW			0.200	0.50	0.35	130.000
165 120-3000	Generator set, diesel engine, including battery, charger, muffler, transfer switch & daily fuel			0.180	0.50	0.34	144,44
165 120-3100	tank, 3 Phase, 4 Wire Up to 220/380 V; Capacity 600 KW Generator set, diesel engine, including battery, charger, muffler, transfer switch & daily fuel		 	0.125	0.50	0.31	208.000
	tank, 3 Phase, 4 Wire Up to 220/380 V; Capacity 900 KW Generator set, diesel engine, including battery, charger, muffler, transfer switch & daily fuel		 			5980.	
165 120-3200	tank, 3 Phase, 4 Wire Up to 220/380 V; Capacity 1200 KW	•	Y	0.100	0.50	0.30	260.000
165 125	TRANSFER SWITCHES:		Texas				
165 125-0300	Automatic transfer switch in NEMA 1 enclosure, 600 A	EA	0.125 Electrical Foreman 1.000 Special Electrician 1.000 Helper 1.000 Tools Set	0.900	1.00	0.95	8.88
165 125-0400	Automatic transfer switch in NEMA 1 enclosure, 1000 A			0.750	1.00	0.88	10.66
165 125-0500	Automatic transfer switch in NEMA 1 enclosure, 1200 A			0.700	1.00	0.85	11.429
165 125-0600	Automatic transfer switch in NEMA 1 enclosure, 1600 A			0.600	1.00	0.80	13.333
165 125-0700	Automatic transfer switch in NEMA 1 enclosure, 2000 A			0.500	1.00	0.75	16.000
165 125-1100	Manual transfer switch in NEMA 1 enclosure, 200 A			1.750	2.00	1.88	4.57
165 125-1200	Manual transfer switch in NEMA 1 enclosure, 400 A			1.250	1.00	1.13	6.400
165 125-1300	Manual transfer switch in NEMA 1 enclosure, 600 A	+	.	1.000	1.00	1.00	8.000
165 200	CAPACITORS						
165 210 165 210-0150	CAPACITORS: Capacitor indoor, 220V,single Phase & 3 phase, 2.5 KVAR	EA	0.125 Electrical Foreman 1.000 Special Electrician 1.000 Helper	3.500	4.00	3.75	2.286
165 210-0200	Capacitor indoor, 220V,single Phase & 3 phase, 5.0 KVAR	H	1.000 Tools Set	2,500	3.00	2.75	3.200
	Capacitor indoor, 220V,single Phase & 3 phase, 10 KVAR			2.000		2.00	4.000
165 210-1000	Capacitor indoor, 220V,single Phase & 3 phase, 25 KVAR			1.500	2.00	1.75	5.333
165 210-1150	Capacitor Indoor, 380V,single Phase & 3 phase, 5 KVAR			3.000	3.00	3.00	2.66
165 210-1250	Capacitor indoor, 380V,single Phase & 3 phase, 15 KVAR			2.750	3.00	2.88	2.909
165 210-1350	Capacitor indoor, 380V,single Phase & 3 phase, 30 KVAR			2.000	2.00	2.00	4.000
165 210-1450	Capacitor indoor, 380V,single Phase & 3 phase, 50 KVAR			1.750	2.00	1.88	4.57
166	LIGHTING						
166 100	LIGHTING						
166 110	EXIT AND EMERGENCY LIGHTING:						
166 110-0080	Exit lighting fixture, ceiling or wall mount, incandescent, single face.	EA	0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Tools Set	14.000	16.00	15.00	0.571
166 110-0100	Exit lighting fixture, ceiling or wall mount, incandescent,double face.	teo je		11.000	13.00	12.00	0.72
166 110-0300	Emergency lighting fixture, battery operated, twin sealed beam lights, 25W, 6V each.			8.000	9.00	8.50	1.000
166 110-0900	Emergency lighting fixture, self-contained fluorescent lamp pack	1	ļ .	15.000	17.00	16.00	0.533
166 115	EXTERIOR FIXTURES:						
166 115-0200	Exterior lighting fixture with lamp wall mounted incandescent, 100 W	EA	0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Tools Set	25.000	29.00	27.00	0.320
166 115-0400	Exterior lighting fixture with lamp, floodlight,quartz, 500 W, wall mounted		l I	20.000	23.00	21.50	0.400
A PORT OF THE PROPERTY.	Exterior lighting fixture with lamp, floodlight, mercury vapor, 100 W, wall mounted			10.000	12.00	*1 00	0.80
166 115-0600	No. of the second secon	-		10,000	12.00	11 00	0.90
14/05/5/1977/15-0406	Exterior lighting fixture, wall pack, discharge lamp up to 250 Watt			10.000	12.00	147.65	
1400-1007-5-500	Exterior lighting fixture, wall pack, discharge lamp up to 250 Watt. Exterior fixture, floodlights with ballast and lamp, pole mounted, pole not included Mercury Vapor, metal halide or sodium, 175 W			6.000		6.50	1.33

	V16: ELECTRICAL	action Age	OPEN.	D 0		D. O.	AVRG.
CODE	ITEM DESCRIPTION	UNIT	STRUCTURE	D. O. MIN.	D. O. MAX.	AVRG.	E. H.
166 115-1600	Exterior fixture,floodlights with ballast and lamp,pole mounted,pole not included Mercury Vapor,metal halide or sodium, 400 W			5.000	6.00	5.50	1.600
166 115-1800	Exterior fixture,floodlights with ballast and lamp,pole mounted,pole not included Mercury Vapor,metal halide or sodium, 1000 W			8.000	9.00	8.50	1.000
166 115-2840	Control of the Contro			7.000	8.00	7.50	1,143
	Exterior Light Pole, Aluminium, anchor base without concrete, 6.0 meter high		0.125 Electrical Foreman 1.000 Electrician 1.000 Heiper 1.000 Equip. Operator 1.000 Truck Grane 11 Ton 1.000 Tools Set.	6.000	7.00	6.50	2.667
166 115-3200	Exterior Light Pole, Aluminium, anchor base without concrete, 9.0 meter high			4,500	5,00	4,75	3.556
	Exterior Light Pole, Aluminium, anchor base without concrete. 12 meter high			3.500	4.00	3.75	4.571
	Exterior Light pole bracket arms, 1 arm, Steel or Aluminium			10.000	12.00	11.00	1.600
	Exterior Light pole bracket arms, 2 arms, Steel or aluminium			9.000	10.00	9.50	1.778
166 115-4400	Exterior Light pole bracket arms, 4 arms, Steel or Aluminium		•	7.000	8.00	7.50	2.286
	Exterior Light Pole, Steel, anchor base without concrete, 2.5 meter high		0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Tools Set	6.000	7.00	6.50	1.333
166 115-4600	Exterior Light Pole, Steel, anchor base without concrete, 6.0 meter high		0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Equip. Operator 1.000 Truck Crane 11 Ton 1.000 Tools Set	5.000	6.00	5.50	3.200
166 115-4800	Exterior Light Pole, Steel, anchor base without concrete, 9.0 meter high			4.000	5.00	4.50	4.000
	Exterior Light Pole, Steel, anchor base without concrete, 12 meter high			3.000	3.00	3.00	5.333
HERE THE STREET, STREE	Exterior Light Pole, Fiberglass, anchor base without concrete, 6.0 meter high			8.000	9.00	8.50	2.000
CALL CONTROL OF THE CALL C	Exterior Light Pole, Fiberglass, anchor base without concrete, 9.0 meter high			7.000	8.00	7.50	2.286
166 115-6500	Exterior, Bollard light including mercury fixture 175 watt.lamp, ballast & polycarbonate		0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Tools Set	6,000	7.00	6.50	1.333
166 115-7100	Exterior, Bollard light, including sodium fixture up to 150 watt, lamp, ballast &			6.000	7.00	6.50	1.333
166 115-7400	Exterior Landscape recessed uplight, including housing ballast, transformer & reflector.			9.000	10.00	9.50	0.889
166 115-7400	Exterior Landscape recessed uplight, including housing,ballast,transformer &			10.000	12.00	11.00	0.800
166 115-7440	Exterior Landscape recessed uplight, including housing,ballast,transformer &reflector,			9.000	10.00	9.50	0.889
166 115-7460	Exterior Landscape recessed uplight, including housing,ballast,transformer &reflector,			8.000	9.00	8.50	1.000
	Quartz 500 watt	4		-			
166 130-0200	INTERIOR LIGHTING FIXTURES (ILF) Interior fluorescent fixture recessed mounted, with lens 300 x 1200 mm, 2 x 40 watt	EA	0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Tools Set	9.000	10.00	9.50	0.889
166 130-0400	Interior fluorescent fixture recessed mounted, with lens 600 x 1200 mm, 2 x 40 watt			8.000	9.00	8.50	1.000
166 130-0600	Interior fluorescent fixture recessed mounted, with lens 600 x 1200 mm, 4 x 40 watt			7.000	8.00	7.50	1.143
166 130-0660	Interior fluorescent fixture recessed mounted, with lens 600 x 600 mm, 4 x 20 watt			9.000	10.00	9.50	0.889
166 130-0900	Interior fluorescent fixture recessed mounted, with lens 1200 x 1200 mm, 8 x 40 watt	1	1	4.500	5.00	4.75	1.778
166 130-1100	Interior fluorescent fixture surface mounted, with lens & latched door frame, 300 x 1200 mm, 2 x 40 W	EA	0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Tools Set	11.000	13.00	12.00	0.727
166 130-1110	Interior fluorescent fixture surface mounted, with lens & latched door frame, 300 x 1200			10.000	12.00	11.00	0.800
166 130-1500	mm, 3 x 40 W Interior fluorescent fixture surface mounted, with lens & latched door frame, 600 x 1200		1120	8.000	9.00	8.50	1.000
166 130-1560	Interior fluorescent fixture surface mounted, with lens & latched door frame, 600 x 600			10.000	12.00	11.00	0.800
166 130-1600	nm, 4 x 20 W Interior fluorescent fixture surface mounted, with lens & latched door frame, 1200 x 1200			6.000	7.00	6.50	1.333
166 130-1700	Interior fluorescent fixture surface mounted, with lens & latched door frame, 1200 x 1200	1		5.600	6.00	5.80	1.429
166 130-1800	Interior fluorescent fixture surface mounted, with lens & latched door frame,1200 x 1200	1		4.800	6.00	5.40	1.667
166 130-1900	Interior fluorescent fixture surface mounted, with lens & latched door frame, 600 x 2400	1		5.600	6.00	5.80	1.425
100 130-1900	mm, 4 x 40 W Interior fluorescent fixture surface mounted, with lens & latched door frame, 600 x 2400	-	-	0.000		5.40	1.66
166 130-2000	Interior hubrescent fixture surface mounted, with lens a fatched door marke, 600 x 2400	1 1	1 1	4.800	0.00	0,40	1.00

CODE	ITEM DESCRIPTION	U	TIV	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
166 130-2200	Interior Strip fluorescent fixture, surface mounted, 1200 mm long, 2 x 40 Watt, rapid start.				13.000	15.00	14.00	0.61
166 130-2300	Interior Strip fluorescent fixture, surface mounted, 1200 mm long, 2 x 40 Watt, slimline.				13.000	15.00	14.00	0.61
166 130-2700	Interior Strip fluorescent fixture, surface mounted, 2400 mm long, 2 x 75 Watt, slimline.				11.000	13.00	12.00	0.72
166 130-2800	Interior Strip fluorescent fixture, surface mounted, 1200 mm long, 2 x 60 Watt, rapid				11,700	13.00	12.35	0.68
166 130-3100	start Interior pendent fluorescent fixture,industrial with white porcelain enamel open reflector,				000,000		1100000	9.27599
	1200 mm long, 2 x 40 Watt rapid start. Interior pendent fluorescent fixture,industrial with white porcelain enamel open reflector,				9,000	10.00	9.50	0.88
166 130-3200	1200 mm long, 2 x 60 Watt rapid start. Interior pendent fluorescent fixture,industrial with white porcelain enamel open reflector,				8.000	9.00	8.50	1.00
166 130-3250	2400 mm long, 2 x 75 Watt slimline				7.000	8.00	7.50	1,14
166 130-3300	Interior pendent fluorescent fixture,industrial with white porcelain enamel open reflector, 2400 mm long, 2 x 110 Watt.				6.000	7.00	6.50	1.33
166 130-3470	Interior fluorescent fixture troffer,air handling type, 600 x 1200 mm, 4 x 40 Watt rapid start, complete with 150 mm diameter air connector.				6.000	7,00	6.50	1.33
166 130-3480	Interior fluorescent fixture troffer, air handling type, 600 x 600 mm, 4 x 20 Watt rapid start, complete with 150 mm diameter air connector.				8.000	9.00	8.50	1.000
166 130-3700	Interior Mercury Vapor lighting fixture integral ballast ceiling recess mounted, prismatic glass lens, floating door, 600 x 600 mm, 250 W Deluxe white lamp.				5.000	6.00	5.50	1.600
166 130-3800	Interior Mercury Vapor lighting fixture,integral ballast,ceiling recess mounted, prismatic				4.500	5.00	4.75	1.77
166 130-3900	glass lens, floating door, 600 x 600 mm, 400 W Deluxe white lamp. Interior Mercury Vapor lighting fixture, integral ballast, ceiling, surface mounted, prismatic						Overage	
	glass lens, floating door, 600 x 600 mm, 400 W Deluxe white lamp Interior Mercury Vapor fixture, High bay, Aluminium reflector, integral ballast, 400 W				4.000	5.00	4.50	2.000
166 130-4000	Deluxe white lamp				3.750	4.00	3.88	2.133
166 130-4100	Interior Mercury Vapor fixture, High bay, Aluminium reflector, integral ballast, 1000 W Deluxe white lamp.				3.000	3.00	3.00	2.667
166 130-4200	Interior Mercury Vapor fixture, High bay, Aluminium reflector, integral ballast, Twin unit, 400 W Deluxe white lamp.				2.500	3.00	2.75	3.200
166 130-4480	Indoor incandescent fixture, high hat can,round alzak reflector up to 150 W				13.000	15.00	14.00	0.618
66 130-4500	Indoor incandescent fixture, high hat can,round alzak reflector 300 W				11.000	13.00	12.00	0.727
	Indoor incandescent fixture, square glass lens with metal trim, up to 200 W				11.000	13.00	12.00	0.727
	Indoor incandescent fixture, square glass lens with metal trim, 300 W				10.000	12.00	11.00	0.800
	Indoor incandescent fixture, ceiling /wall mounted,metal cylinder, up to 150 W Indoor incandescent fixture, ceiling,surface mounted,opai glass drum, 200 mm, 1 x 60	-			16.000	18.00	17.00	0.500
66 130-5200	watt lamp. Indoor incandescent fixture, ceiling, surface mounted, opal glass drum, 250 mm, 2 x 60				16.000	18.00	17.00	0.500
66 130-5400	watt lamp.				13.000	15.00	14.00	0.615
66 130-5500	Indoor incandescent fixture, ceiling, surface mounted, opal glass drum, 300 mm, 4 x 60 watt lamp.				11.000	13.00	12.00	0.727
66 130-6010	Indoor incandescent fixture, vapor tight, ceiling mounted, 200 Watt.				12.000	14.00	13.00	0.667
66 130-6100	Indoor,Vapor tight fluorescent fixture,surface mounted, 1200 mm long,rapid start, 2 x 40 Watt.				5.000	6.00	5.50	1.600
66 130-6200	Indoor, Vapor tight Mercury Vapor fixture, integral ballast, surface mounted, 175 Watt.				6.000	7.00	6.50	1.333
66 130-6300	Indoor,Explosionproof incandescent fixture, ceiling mounted, 200W			dua estado de la compansión de la compan	6.000	7.00	6.50	1,333
66 130-6600	Indoor,explosionproof fluorescent fixture,1200 mm long,ceifing mounted, 2 x 40 Watt_rapid start.				4.000	5.00	4.50	2.000
66 130-6700	Indoor,Explosionproof,Mercury vapor with ballast,surface mounted, 175W				5.000	6.00	5.50	1.600
66 130-6850	Indoor,Vandalproof fluorescent fixture,surface mounted, 2 x 40 Watt.				5.000	6.00	5:50	1.600
	Indoor,Vandalproof incandescent fixture,surface mounted, 1 x 150 Watt.	_			13.000	15.00	14.00	0.615
PM of the second	Lighting fixture,Ballast replacement, up to 4.2 m high,up to 0.9 kg ballast weight. Lighting fixture,Ballast replacement, up to 4.2 m high,from 0.9 to 2.3 kg ballast weight.	EA		0.125 Electrical Foreman 1.000 Electrician 1.000 Heliper	18.000	23.00	21.50	0.400
66 130-7580	Lighting fixture,Ballast replacement, up to 4.2 m high,above 2.3 kg ballast weight.	1		1.000 Tools Set	16.000	18.00	17.00	0.500
66 130-7640	Lighting fixture, Electronic or Dimmable Ballast replacement, up to 4.2 m high, for 2	+						
	Lamp. For Indoor Lighting fixture & Ballast s Installation in more than 1 floor building,		-		16.000	18.00	17.00	0.500
00 130-7030	add per additional floor to above items	4	-	.00				0.000
	Indoor incandescent Chandelier up to 0.70 m diameter & 1.0 m high, crystal & brass	-	-	- 8	3.000	3.00	3.00	2.667
	Indoor incandescent Chandelier up to 1.25 m diameter & 1.5 m high, crystal & brass	1	-		1.000	1.00	1.00	8.000
503 88400	Indoor incandescent Chandelier up to 1.50 m diameter & 2.0 m high, crystal & brass TRACK LIGHTING:	•		+	0.250	0,50	0.38	32.000
	Track lighting, 1 circuit	LM	П	0.125 Electrical Foreman 1.000 Electrician 1.000 Helper	12.000	14.00	13.00	0.667

CSI	ITEM DESCRIPTION	UNIT	(N)	REW	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
166 150-0300	Track lighting, 3 circuit		1		10.000	12.00	11.00	0.80
166 150-1000	Feed kit, surface mounting	EA	1		28.000	32.00	30.00	0.28
166 150-1100					40.000	(0.000)	43.00	0.20
166 150-1300	Feed kit, stem mounting, 3 circuit track		 		28.000	32.00	30.00	0.28
or the service of the case	Electrical jointer, for continuous runs, 1 circuit track				55.000	63.00	59.00	0.14
	Electrical jointer, for continuous runs, 3 circuit track		1		55.000	63.00	59.00	0.14
	Lighting fixture spotlight		-		28.000	32.00	30.00	0.28
167	ELECTRIC UTILITIES						00.00	0.20
167 100	ELECTRIC UTILITIES		1					
167 110	ELECTRIC & TELEPHONE SITE WORK:				1			
167 110-1000	Handholae pracase concrate with concrete cover and including availables 2 hostfill 1.2	EA	0.125 Forman 1.000 Skilled L 2.000 Helper 0.250 Equipme 0.250 Truck C	nt Operator	3.500	4.00	3.75	0.571
167 110-1400	Manhole, precast concrete with iron racks, pulling irons, cast iron frame & cover, not	T	U.E.DU TIGUR O	and 11 1041	2.000	2.00	2.00	1.000
167 110-2000	including excavation & backfill, 1.2 x 1.8 meters, 2.1 meter deep. Poles, wood,creosoted, 6.0 meters high, not including excavation, backfill & concrete		-		4.000			
	Poles wood creasated 9.0 meters bigh not including exceptation happill & concrete	+			3,900	5.00	4.50	0.500
167 110-2600	base				3.000	3.00	3.00	0.667
167 110-3000	Poles, wood,creosoted, 12 meters high, not including excavation, backfill & concrete base				2.000	2.00	2.00	1.000
167 110-3600	Cross arms for wooden pole, with hardware & insulators, 1.2 meter long.				6.000	7.00	6.50	0.333
167 110-4000	Cross arms for wooden pole, with hardware & insulators, 2 meter long.	+	-		5.000	6.00	5.50	0.400
167 110-4600	diameter	LM	3.000 Electrici. 2.000 Commor 0.250 Light Eq 0.125 concrete 0.125 Wheelec 1 Heat Bender 0.250 Backhoe	Laborers Jp. Oper, mixer	29.100	33.00	31.05	0.412
167 110-4800	diameter, complete including handling, excavation, fill, concrete & conduit laying				21.560	25.00	23.28	0.557
167 110-5600	Underground duct bank,PVC type,concrete encased,180 mm O.C.; 4 duct 100 mm diameter, complete including handling, excavation, fill, concrete & conduit laying				19.160	22.00	20.58	0.626
167 110-6000	Underground duct bank, PVC type, concrete encased, 250 mm O.C.; 4 duct 150 mm diameter, complete including handling, excavation, fill, concrete & conduit laying				14.360	17,00	15.68	0.836
167 110-6200	Underground duct bank, Rigid galvanized steel type, no concrete or excavation, 180 mm O.C.; 2 duct 50 mm diameter		0.125 Electricia 1.000 Electricia 1.000 Helper 1 Tools Set		24.190	28.00	26.10	0.331
167 110-6400	Underground duct bank, Rigid galvanized steel type, no concrete or excavation,				12.460	14.00	13.23	0.642
167 110-7200	180 mm O.C.; 4 duct 50 mm diameter Underground duct bank,Rigid galvanized steel type, no concrete or excavation,	+			11.170	13.00	12.09	0.716
	180 mm O.C.; 2 duct 100 mm diameter Underground duct bank, Rigid galvanized steel type, no concrete or excavation,	+	-		- Davisio			15.075
167 110-7640	250 mm O.C.; 4 duct 150 mm diameter	_			4.470	5.00	4.74	1.790
	PVC duct bank fittings: Elbow, 100 mm diameter	1			18.000	21.00	19.50	0.444
Committee Control	PVC duct bank fittings: Elbow, 150 mm diameter	-			14.000	16.00	15.00	0.571
	PVC duct bank fittings: End bell,100 mm diameter				18.000	21.00	19.50	0.444
	PVC duct bank fittings: End bell, 150 mm diameter				12.000	14.00	13.00	0.667
SEPTEMBER 1	PVC duct bank fittings: Expansion joint,100 mm diameter	•			18.000	21.00	19.50	0.444
67 120 0040	FIBER DUCT: Underground duct bank, Fiber type, concrete encased, 180 mm O.C.; 2 duct 50 mm diameter, complete with excavation, concrete, fill & conduit laying	LM	0.125 Forman 3.000 Electricia 2.000 Common 0.250 Light Equ 0.125 Concrete 0.125 Wheeled 1.000 Heat Ben 0.250 Backhoe	Laborers ip, Oper, mixer Engine Cart	37.460	43.00	40.23	0.320
	Underground duct bank, Fiber type, concrete encased, 180 mm O.C.; 2 duct 100 mm	0			24.660	28.00	26.33	0.487
	diameter Underground duct bank, Fiber type, concrete encased, 250 mm O.C.; 2 duct 150 mm	1	2004	-	1			
07 120-0140	diameter Fiber duct bank fittings: Elbow, 100 mm diameter	EA	0.125 Electrical 1.000 Electricia 1.000 Helper		14.000	16.00	15.00	0.649
67 100 0010	Ebordust host Eldon Fib	-	1.000 Tools Set	5	11.2-1			
07 120-0640	Fiber duct bank fittings: Elbow, 150 mm diameter				11.000	13.00	12.00	0.727

167 120-2700 168 168 100 168 105	Fiber duct bank fittings: Expansion joint, 150 mm diameter		STRUCTURE	MIN.	1	AVRG.	E. H.
168 100	Triber duct bank nungs. Expansion joint, 150 mm diameter	I	1	14.000	16.00	15.00	0.57
168 100	SPECIAL SYSTEMS						
168 105	SPECIAL SYSTEMS						
	CLOCKS:						
168 105-0080	Clocks, 300 mm diameter, single face	EA	0.125 Electrical Foreman 1.000 Electrician 1.000 Helper	14.000	16.00	15.00	0.57
168 105-0100	Clocks, 300 mm diameter, double face	98	1,000 Tools Set	11.000	13.00	12.00	0.72
168 110	CLOCK SYSTEMS:		1	100,000,000	1,505,5	(Marakan)	327/328
168 110-0100	Clock systems,master clock	EA	0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Tools Set	0.500	1.00	0.75	16.000
168 110-0200	Clock systems,program bell			14.000	16.00	15.00	0.57
168 110-0400	Clock systems,combination clock & speaker			5.000	6.00	5.50	1.600
168 110-0600	Clock systems, frequency generator			3.500	4.00	3.75	2.286
168 110-0800	Clock systems,job time automatic stamp recorder			6.000	7.00	6.50	1.333
	Clock systems, time stamp for correspondence, fully automatic			6.000	7.00	6.50	1.333
168 120	DETECTION SYSTEMS:	-	- ·	1		24.0012()	30.5004
168 120-0100	Burglar alarm,battery operated,mechanical or electrical trigger	EA	0.125 Electrical Foreman 1.000 Special Electrician 1.000 Helper 1.000 Tools Set	7.000	8.00	7.50	1.143
168 120-0400	Burglar alarm, for outside key control add			13.000	15.00	14.00	0.615
168 120-0600	Burglar alarm, for remote signaling circuitry, interface relay.			6.000	7.00	6.50	1.333
68 120-0800	Burglar alarm: Card reader,flush type,standard, or Multi-code.			4.500	5.00	4.75	1,778
68 120-1200	Burglar alarm: Door switches,hinge switch, or Magnetic switch.			8.000	9.00	8.50	1.000
68 120-1600	Burglar alarm: Exit control locks,horn alarm, or Flashing light alarm.			7.000	8.00	7.50	1.143
68 120-2200	Detection system, indicating panels, 10 channel			2.500	3.00	2.75	3.200
68 120-2800	Ultrasonic motion detector, 12V			4.000	5.00	4.50	2.000
68 120-3000	Infrared photoeletric detector			4.000	5.00	4.50	2.000
68 120-3600	Detection system, for fire,sprinkler & standpipe alarm,control panel, 4 zone			3.000	3.00	3.00	2.667
68 120-4000	Detection systems, for fire, sprinkler & standpipe alarm, control panel, 12 zone			1.250	1.00	1.13	6.400
68 120-4200	Fire alarm battery & rack			6.000	7.00	6.50	1.333
68 120-4200	Fire alarm automatic charger			10.000	12.00	11.00	0.800
68 120-4300	Fire alarm, break glass alarm switch			15.000	17.00	16.00	0.533
68 120-4500	Fire alarm, alarm bell			15.000	17.00	16.00	0.533
68 120-5000	Fire alarm heat detector,rate of rise			15.000	17.00	16.00	0.533
68 120-5200	Fire alarm smoke detector, ceiling type			12.000	14.00	13.00	0.667
68 120-5400	Fire alarm smoke detector, duct type			5.000	6.00	5.50	1.600
68 120-5800	Fire alarm horn			12.000	14.00	13.00	0.667
68 120-6000	Door holder,electro-magnetic			7.000	8.00	7.50	1.143
68 120-6200	Door holder; combination holder and closer			5.000	6.00	5.50	1.600
68 120-8000	Fire alarm,remote annunciator, 12 zone lamp			2.000	2.00	2.00	4.000
68 125	DOORBELL SYSTEM:						
68 125-0100	Doorbell system including transformer,button & signal bell or buzzer	EA	0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Tools Set	8.000	9.00	8.50	1.000
68 125-0200	Doorbell system including transformer,2 button & 2 signal bell or buzzer in 2 floor house	EA	0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Tools Set	5.000	6.00	5.50	1.600
68 130	ELECTRIC HEATING:						
68 130-2400	Electric Heating, baseboard heaters, 2.4m long, 1.5 kW	EA	0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Tools Set	8.000	9.00	8.50	1.000
68 130-3150	Electric Heating, wall heaters with fan, surface mounted, residential, 4.00 kW			7.000	8.00	7.50	1.143

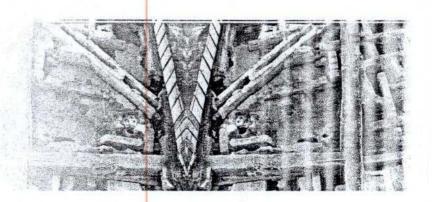
CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
168 130-3600	Thermostat	EA	0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Tools Set	22.000	25.00	23.50	0.36
168 130-4580	Thermostat / contactor combination, 30 amp, 4 pole	\top		4.500	5.00	4.75	1.77
168 130-4600	Thermostat / contactor combination, 50 amp, 4 pole			4.000	5.00	4.50	2.00
168 140	LIGHTNING PROTECTION:						
168 140-0200	Air terminal, copper, 20 mm installed on roofs 24 meter high above grade	EA	0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Tools Set	14.000	16.00	15.00	0.57
168 140-0400	Air terminal, copper, 20 mm installed on roofs higher than 24 m add for every 12 m high	13401		12.000	14.00	13.00	0.66
168 140-2000	Cable, Copper 70 mm2 fixed with clamps every 2 meter spacing	KG		125,000	144.00	134.50	0.06
168 140-2500	Cable, Aluminium 95 mm2 fixed with clamps every 2 meter spacing	100		140.000	161.00	150.50	0.05
168 140-3000	Lightning Arrestor 600 V to ground	EA		10.000	12.00	11.00	0.80
168 145	NURSE CALL SYSTEMS:						
168 145-0100	Nurse Call Systems, single bedside call station	EA	0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Tools Set	14.000	16.00	15.00	0.57
168 145-0200	Nurse Call Systems, ceiling speaker station			12.000	14.00	13.00	0.66
168 145-0400	Nurse Call Systems, emergency call station			14.000	16.00	15.00	0.57
68 145-0600	Nurse Call Systems, pillow speaker			14.000	16.00	15.00	0.57
68 145-0800	Nurse Call Systems, double bedside call station			7.000	8.00	7.50	1.14
68 145-1200	Nurse Call Systems, standard call station			18.000	21.00	19.50	0.44
68 145-1400	Nurse Call Systems, lights, corridor, dome or zone indicator			18.000	21.00	19.50	0.44
168 145-1600	Nurse Call Systems, master control station for 20 stations	1	.	0.800	1.00	0.90	10.00
68 150	PUBLIC ADDRESS SYSTEM:						
68 150-0100	Public address system, commercial buildings, speaker including wiring rigid steel conduits & head end equip average	SPEAKE	0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Tools Set	1.580	2.00	1.79	5.06
168 150-0200	Public address system, industrial buildings, speaker including wiring & head end equip average			1,190	1.00	1.10	6.72
68 150-0400	Public address system, industrial buildings, explosion proof installation,			0.550	1.00	0.78	14.54
68 155	speaker including wiring rigid steel conduits & head end equip average SOUND SYSTEM:	1 1	•		1088	5.050	2,46,00
	Sound system components,Outlet, in rigid steel conduits	EA	0.125 Electrical Foreman 1.000 Electrician 1.000 Helper 1.000 Tools Set	4.080	5.00	4.54	1.96
68 155-0400	Sound system Speakers,ceiling or wall			14.000	16.00	15,00	0.57
68 155-1000	Sound system Monitor panel		lucii - cere l	6.000	7.00	6.50	1.333
68 155-1200	Sound system Antenna, AM/FM			6.000	7.00	6.50	1.333
68 155-1400	Sound system Volume control			16.000	18.00	17.00	0.500
68 155-1600	Sound system Amplifier, 250W			6.000	7.00	6.50	1.333
68 155-1800	Sound system Cabinets			2.000	2.00	2:00	4.000
68 155-2000	Sound system, Master station for intercom of 25 stations.			2.000	2.00	2.00	4.000
68 155-2400	Sound system,intercom outlet, in rigid steel conduit			3.670	4.00	3.84	2.180
68 155-2800	Emergency call system, 12 zones,annunciator			2.500	3.00	2.75	3.200
68 155-3600	House telephone, talking station			3.000	3.00	3.00	2.667
68 155-4200	House telephone talking system, door release			6.000	7.00	6.50	1.333
68 155-4600	House telephone talking system termination box			5.000	6.00	5.50	1.600
58 155-4800	House telephone talking system. Amplifier or power supply			6.000	7.00	6.50	1.333
68 157	Telephone System:					PHE .	D2
68 157-0100	Telephone cabinet, indoor 10 pair	EA	1.000 Electrician 1.000 Helper 1.000 Power Tools	4.000	5.00	4.50	2.000
68 157-0120	Telephone cabinet, indoor 25 pair	EA	1.000 Electrician 1.000 Heiper 1.000 Power Tools	3.000	3.00	3.00	2.667
68 157-0140	Telephone cabinet, indoor 50 pair			2.000	2.00	2.00	4.000
8 157-0160	Telephone cabinet, indoor 100 pair			1.000	1.00	1.00	8.000
Self-terment	TO PROPERTY OF THE PROPERTY OF	-		1050515	169.5	0.747	16.000

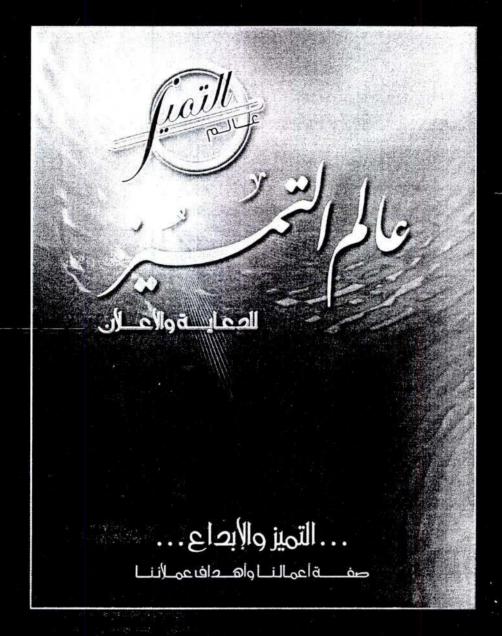
CSI CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
168 157-0200	Telephone cabinet, outdoor 10 pair			4.000	5.00	4.50	2.000
168 157-0220	Telephone cabinet, outdoor 25 pair			3.000	3.00	3.00	2.667
168 157-0240	Telephone cabinet, outdoor 50 pair			2.000	2.00	2.00	4,000
168 157-0260	Telephone cabinet, outdoor 100 pair			1.000	1.00	1.00	8.000
168 157-0280	Telephone cabinet, outdoor 200 pair			0.500	1.00	0.75	16.000
168 158	Telephone Cables.		1				
	Telephone cable, 2 pair ,pulled in conduits.	LM	1 000 Electrician 1 000 Helper 1 000 Power Tools	800.000	920.00	860.00	0.010
168 158-0120	Telephone cable, 4 pair			700.000	805.00	752.50	0.011
168 158-0140	Telephone cable, 6 pair			550.000	633.00	591.50	0.015
68 158-0160	Telephone cable, 15 pair			400.000	460.00	430.00	0.020
	Telephone cable, 25 pair		1	325.000	374.00	349.50	0.025
			 	250.000	288.00	269.00	0.032
Date of the Control of the	Telephone cable, 50 pair			200.000	230.00	215.00	0.040
	Telephone cable, 80 pair			100000000000000000000000000000000000000	100000000	DIAMETER	11700000
	Telephone cable, 100 pair	*	<u> </u>	175.000	201.00	188.00	0.046
168 320	T.V. SYSTEMS:		0.125 Electrical Foreman				
168 160-0200	Master TV antenna system, VHF reception	EA	1 000 Special Electrician 1 000 Heiper 1 000 Tools Set	6.000	7.00	6.50	1.333
168 160-0800	Master TV antenna system, VHF& UHF reception			6.000	7.00	6.50	1.333
168 160-2000	Closed circuit TV system, surveillance,one station(camera & monitor)			3.000	3.00	3.00	2.667
To the state of th	Closed circuit TV system, Add for each added camera			5.000	6.00	5.50	1.600
	Closed circuit TV system, surveillance,one station, monitor & weatherproof camera			2.000	2.00	2.00	4.000
	Closed circuit TV system, surveillance,one station, monitor & 1 pan & tilt camera			2.000	2.00	2.00	4.000
	Closed circuit TV system;Industrial quality,for zoom lens-remote control,add Average.			2.000	2.00	2.00	4.000
	TV System distribution pedestal including 8 ports			2.500	3.00	2.75	3.200
	TV System distribution pedestal including splitter			4.000	5.00	4.50	2.000
	TV System distribution pedestal including Line or Trunk amplifier			4.000	5.00	4.50	2.000
	TV head end Equipment, including cabinets, amplifiers, receivers for 10 channels	1		0.600	1.00	0.80	13.333
	TV head end Sattelite up to 15 m diameter installed on grade.	-		1.250	1.00	1.13	6.400
168 170	RESIDENTIAL WIRING:		N A	7.233	(100)		
	Residential wiring, lighting outlet, 4 LM average run to Panel, Lighting switch conduits at 5 LM avg., including wires 3x4 mm2 PVC conduits & accessories complete wiring to panel, including lighting switch, 8 outlets per circuit	EA	0.125 Electrical Foreman 2.000 Electrician 1.000 Helpers 1.000 Tools Set	4.280	5.00	4.64	1.869
168 170-1200	Residential wiring, lighting outlet, 4 LM average run to Panel, including wires 3x4 mm2, PVC conduits & accessories complete wiring to panel, not including lighting switch, 8 outlets per circuit			9.410	11.00	10.21	0.850
168 170-1300	Residential wiring, lighting outlet, 4 LM average run to Panel, including wires 3x4 mm2, PVC condults & accessories complete wiring to panel, not including lighting switch, 6 outlets per circuit			6.680	8.00	7.34	1,198
168 170-1600	Residential wiring, Power Receptacle Outlet average run to panel 12 LM, including wires 3x6 mm2 PVC conduits & accessories complete wiring to panel Average.1 outlet per circuit			3.300	4.00	3.65	2,424
168 170-1900	Residential wiring, Range Receptacle Outlet average run 15 LM, including wires 4x16 mm2 PVC conduits & accessories complete wiring to panel, 1 outlet per circuit			1,540	2.00	1.77	5.195
168 170-2100	Residential wiring, Dryer Receptacle Outlet average run 15 LM, including wires 3x10 mm2 PVC conduits & accessories complete wiring to panel, 1 outlet per circuit			2.120	2.00	2.06	3,771
68 170-3000	Residential wiring, lighting outlet average spacing 4 LM, including wires 3x4 mm2 EMT conduits & accessories complete wiring to panel, 8 outlets per circuit, lighting switch not included			7.280	8.00	7.64	1.099
168 170-3200	Residential wiring.Receptacle Outlet, 6 LM average run per outlet to panel, including wires 3x4 mm2, EMT conduits & accessories complete wiring to panel, 6 outlets per circuit			9.530	11.00	10.27	0.839
168 170-5600	Residential wiring, Power Receptacle Outlet average run to panel 12 LM, including wires 3x6 mm2 IMC conduits & accessories complete wiring to panel Average.1 outlet per circuit			2.680	3.06	2.84	2.985
168 170-5700	Residential wiring, Dryer Receptacle Outlet average run 15 LM, including wires 3x10 mm2, IMC conduits & accessories complete wiring to panel,1 outlet per circuit	Į.	0.125 Electrical Foreman	1.630	2.00	1 82	4.906
168 170-6600	Residential wiring, Range Receptacle Outlet average run to panel 15 LM, including wires 3x16 mm2, Galv. rigid steel conduits & accessories complete wiring to panel average, 1 outlet per circuit	EA	2.000 Electrician 1.000 Helpers 1.000 Tools Set	1.170	1.00	1.09	6.838

CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	D. O. MIN.	D. O. MAX.	D. O. AVRG.	AVRG. E. H.
169	POWER TRANSMISSION & DISTRIBUTION			2,320			
169 100	POWER TRANSMISSION & DISTRIBUTION						*
169 110	LINE POLES & FIXTURES:						
169 110-0010	Digging holes in earth, for pole, up to 18 m high	EA	0.125 Labor Forman 1.000 Common Laborer 1.000 Tools Set	2.750	3.00	2.88	2.90
169 110-0105	Digging holes in earth, for pole up to 18 m high, in rock, average	EA	0.125 Labor Forman 1.000 Common Laborer 1.000 Equip. operator 1.000 compressor & hoses	1.500	2.00	1.75	5.33
169 110-0200	Wood poles up to 20 meter long,material handling and spotting		1.000 Skilled Foreman 5.000 Electrician Groundmen 1.000 truck driver 2,000 Common Laborers 1.000 Crew Truck	8.000	9.00	8.50	1.00
169 110-0220	Erect wood poles up to 18 m above ground,in earth		1.000 Skilled Foreman 2.000 Equipment Operators 4.000 Electrician Lineman 4.000 Electrician Groundmen 1.000 Craw Truck 1.000 Tool Van 1.000 Pick-up Truck 0.250 Crane,11 metric ton	5.000	6.00	5.50	5.20
169 110-0250	Erect wood poles up to 18 m above ground,in rock	\	a a	4.500	5.00	4.75	5.778
169 110-0260	Disposal of surplus material	1000 LM	1.000 Skilled Foreman 5.000 Electrician Groundmen 1.000 truck driver 2.000 Common Laborers 1.000 Crew Truck	15.000	17.00	16.00	0.530
169 110-0320	Install crossarms for wood structures	EA	1,000 Skilled Foreman 2,000 Equipment Operators 4,000 Electrician Lineman 4,000 Electrician Groundmen 1,000 Grew Truck 1,000 Tool Van 1,000 Pick-up Truck 0,250 Grane, 11 metric ton	7.000	8.00	7.50	3.714
169 110-0420	Erect formed steel plate pole, up to 18 m above ground			1.000	1.00	1.00	26.000
	Guys,anchors and hardware for pole up to 18 m above ground,in earth			6.000	7.00	6.50	4.333
169 110-0510	Guys, anchors and hardware for pole up to 18 m high above ground, in rock			4.000	5.00	4.50	6.500
169 120	LINE TOWERS & FIXTURES:		· · · · · · · · · · · · · · · · · · ·	1			
169 120-0200	Line towers ,steel footings (grillage) in earth	TON	1.000 Skilled Foreman 2.000 Equipment Operators 4.000 Electrician Lineman 4.000 Electrician Groundmen 1.000 Grew Truck 1.000 Tool Van 1.000 Pick-up Truck 0.250 Crane.11 metric ton 0.250 Crane.11 metric ton	3.000	3.00	3.00	9.333
169 120-0400	Line tower, concrete foundations See also Div. 033			1			
169 120-0500	Towers-material handling and spotting	TON	1,000 Skilled Foreman 4,000 Electrician Groundmen 1,000 Equipment Operator 1,000 truck driver 2,000 Common Laborers 1,000 Crew Truck 1,000 Crane Mobile 50 Ton.	20.000	23.00	21.50	0.800
169 120-0540	Steel Tower erection, up to 66 KV	*3	1.000 Skilled Foreman 2.000 Equipment Operators 4.000 Electrician Lineman 4.000 Electrician Groundmen 1.000 Crew Truck 1.000 Tool Van 1.000 Pick-up Truck 0.250 Crane, 11 metric ton 0.250 Auger, Truck Mounted.	3.000	3.00	3.00	9.333
69 120-0560	Painting tower structure, average	VERT.	2.000 Painters 1.000 Common Laborer 1.000 Consumable Tools	12.000	14.00	13.00	0.000
69 130	OVERHEAD LINE CONDUCTORS & DEVICES:	1	Control of the contro				- South
169 130-0110	Conductors,primary circuits,material handling and spotting	1000 LM	1.000 Skilled Foreman 1.000 Equip. Operators 4.000 Electrician Groundmen 1.000 Truck Driver 2.000 Common Laborer 1.000 Crew Truck 1.000 Crene, 50 metric ton	15.000	17.00	16.00	1.067

CSI	ITEM DESCRIPTION	UNIT	CREW	D. O.	D. O. MAX.	D. O.	AVRG.
CODE	TEM DESCRIPTION	Oldi	STRUCTURE	MIN.	D. O. MAX.	AVRG.	E. H.
169 130-0150	Installing conductors.per wire, 100 mm2 - 300 mm2	1000 LM	1,000 Sulled Foreman 4,000 Electrician Uniersan 1,250 Equip Operators 4,000 Electrician Groundmen 2,000 Drivers 1,000 Core Track 1,000 Tool Van 1,000 Pick-up Truck 0,250 Crane,50 metric ton 3,000 Cable Trailer 1,000 Cable Trailer	2.000	2.00	2.00	29.000
69 130-0160	Installing conductors,per wire, 300 mm2 - 500 mm2	1000 LM	1.000 Skilled Foreman 4.000 Electrician Linerran 1.250 Eguip, Operators 4.000 Electrician Groundmen 2.000 Divers 1.000 Crew Truck 1.000 Tool Van 1.000 Tool Van 1.000 Prokes Truck 0.250 Crane.50 metric ton 3.000 Gable Trailer 1.000 Cable Winch	1.800	2.00	1.90	32.221
169 130-0300	Conductors joints and dead ends	EA	1,000 skilled Foremen 3,000 Electrician Lineman 2,000 Electrician Groundmen 1,000 Pick-up Truck 1,000 Grew Truck	5.000	6.00	5.50	3.200
169 130-0400	Conductors.sagging	1000 LM	1.000 Skilled Foreman 4.000 Electrician Lineman 1.250 Equip. Operators 4.000 Electrician Groundmere 2.000 Drivers 1.000 Crew Truck 1.000 Tool Van 1.000 Prektyp Truck 0.250 Crane, 50 metric ton 3.000 Cebe Trailer 1.000 Cable Trailer	80.000	92.00	86.00	0.725
169 130-0700	Installing spacers between conductors	(94)	1.000 skilled Foreman 4.000 Electrician Lineman 1.000 Electrician Groundman 1.000 Driver 1.000 Crew Truck	50.000	58.00	54.00	0 160
169 130-0810	Disposal of surplus conductor material	stří	1 000 Electrical Foreman 1 000 Electrician Groundmen 1 000 truck driver 4 000 Common Laborers 1 000 Crew Truck	6,000	9,00	8.50	1.000
169 130-1000	Install disk insulators, up to 66 kV.including material handling & spotting	EA	1,000 Skilled Foreman 2,000 Equipment Operator 4,000 Electrician Lineman 4,000 Electrician Groundmen 1,000 Crew Truck 1,000 Tool Van 0,250 Crane 11 metric ton	150.000	173.00	161 50	0 120
169 130-1340	Installation of overhead ground wire,including handling & spotting	1000 LM	1 000 Skilled Foreman 1 000 Electrician Lineman 1 250 Equip. Operators 1 000 Electrician Groundmen 2 000 Drivers 1 000 Crew Truck 1 000 Tool Van 1 000 Pick-up Truck 0 250 Crane 50 metric ton 1 000 Cable Trailer	1.000	1.00	1.00	42.000
169 140	TRANSMISSION LINE RIGHT OF WAY:		1.000 Cable Winch				
	Clearing right of way for transmission line	км	1.000 Labor Foreman 1.000 Surveyor 2.000 Laborer 2.000 Equip. Oper. (med.) 1.000 Hauling Truck 1.000 Dozer,78 kW	4.000	5.00	4.50	4.000
169 150	SUBSTATION EQUIPMENT:		1.000 skilled Foreman				
169 150-1050	Power transformers, 11 to 33 KV	KVA	4.000 Electrician, Specialist 1.000 Equip. Operator 1.000 Driver 2.000 Common Laborer 1.000 Crew Truck 1.000 Crane 11 metric ton	0.750	1.00	0.88	21.33
169 150-1300	Station capacitors synchronous 11 to 33 KV	MVAR		2.500	3.00	2.75	6.400
169 150-1600	Voltage regulators, 11 to 33 KV	EA		0.750		0.88	21,330
169 150-2050	Power circuit breakers, oil circuit breakers, 11 to 33 KV			1,000		1.00	16.000
169 150-2100	Air circuit breakers, 11 to 33 KV			0.500	1,00	0.75	32.000
169 150-2150	Gas circuit breakers, 11 to 33 KV			0.500		0.75	32.000
169 150-2200	Vacuum circuit breakers, 11 to 33 KV	+		0.500	1.00	0.75	32.000
169 150-3060	Disconnecting switches.gang operated.manual operation, 11 to 33 KV	EA	1.000 skilled Foreman 4.000 Electrician, Specialist 1.000 Equip. Operator 1.000 Driver 2.000 Common Laborer 1.000 Crew Truck 1.000 Crane.11 metric ton	1.750	2.00	1.88	9,14
169 150-4050	Instrument transformers, current transformers, 11 to 33 KV		10	12.000	14.00	13.00	1.33
169 150-4100	instrument transformers, potential transformers, 11 to 33 KV			9.000	10.00	9.50	1.7%
169 150-8000	Protective equipment,lightning arresters, 11 to 33 KV			15.000	17:00	16751	1.642
169 150-8150	Protective equipment,reactors and resistors, 11 to 33 KV			20.000	23.00	21 5/	(1,90)
169 150-8250	Protective equipment,fuses, 11 to 33 KV			15.000	17.00	16.00	1.06
169 150-9120	Station Battery charges			12.000	14.00	13.00	1.33
							1.33

Materia!

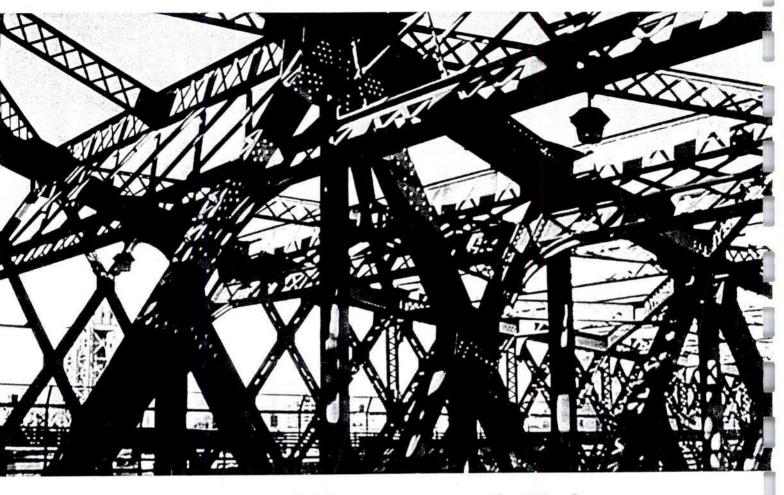




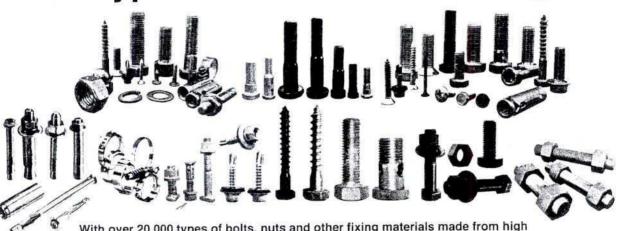
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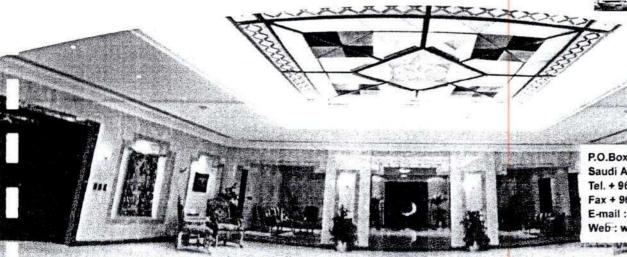
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How to Use the Price Pages

The follosing is a detailed explanation of a sample entry in the Unit Price Section. Next to each bold number below is the item being described with appropriate component of the sample entry following in parenthesis. Some prices are listed as bare cost, others as costs that include overhead and profit of the istalling contractor. In most cases, if the work is to be subcontracted, the general contractor will need to add an additional markup (Projacs suggest using 10%) to the figures in the column.

Division Number / Title (031/ Concrete Formwork)

Use the Unite Price Section Table of contents to locate Specific items. The sections are classified according to The CSI MaterFormat.

Line Numbers (031 142 0500)

Each unit price line item has been assigned a unique 10-digit code based on the 5-digit CSI MasterFormat.

-Item Description (Column form, Round, fiberglass, etc.)

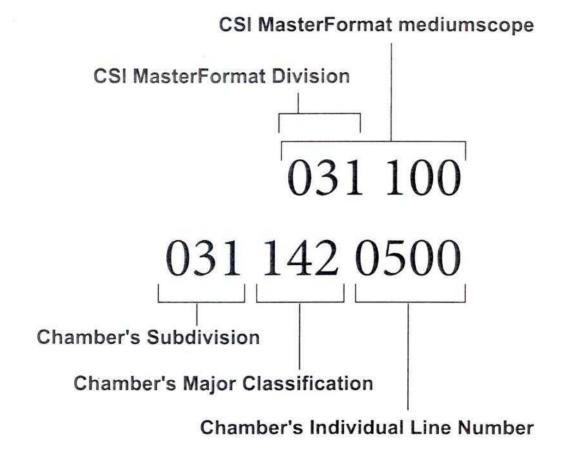
Each line item is described in detail. Sub-items and Additional sizes are indented beneath the appropriate Line items. The first line or two after the main item (in bold face) may contain descriptive information that pertains to all line items beneath this boldface listing.

Cost Per Unit (SR) (COST per unit item in Saudi Riyals)

this figure for the unit material cost for the line item is the "bare" material cost with no overhead and profit allowances included. Costs shown reflect national average material prices for the year 2001 and include delivery to the job site. (1\$=3.76 SR)

DIVISIO	N 3 : CONCRETE		
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
031	CONCRETE FORMWORK		
031 100 \	STRUCT C.I.P. FORMWORK		
031 110	ACCESSORIES, ANCHOR BOLTS Incl. nut and was	her	
031 110-0050	Anchor bolt,including nut & washer,12 mm Diameter, 240 mm	EA	4.60
031 110-0300	Anchor bolt,including nut & washer,16 mm Diameter, 310 mm Long		6.80
031 110-0450	Anchor bolt,including nut & washer, 20 mm Diameter, 270 mm Long		13.50

CSI Line Numbers / Chamber Line Numbers:



NOTE: Chamber Means Riyadh Chamber of Commerce & Industry

Division 1 General Requirments

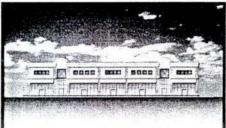


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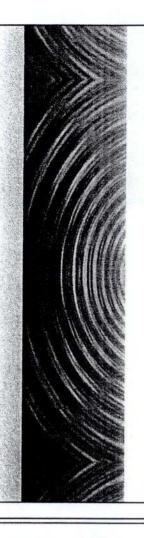




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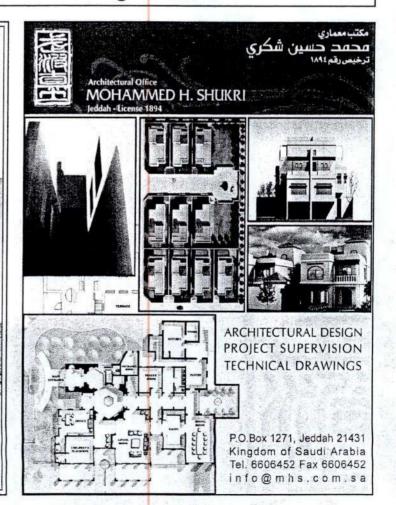
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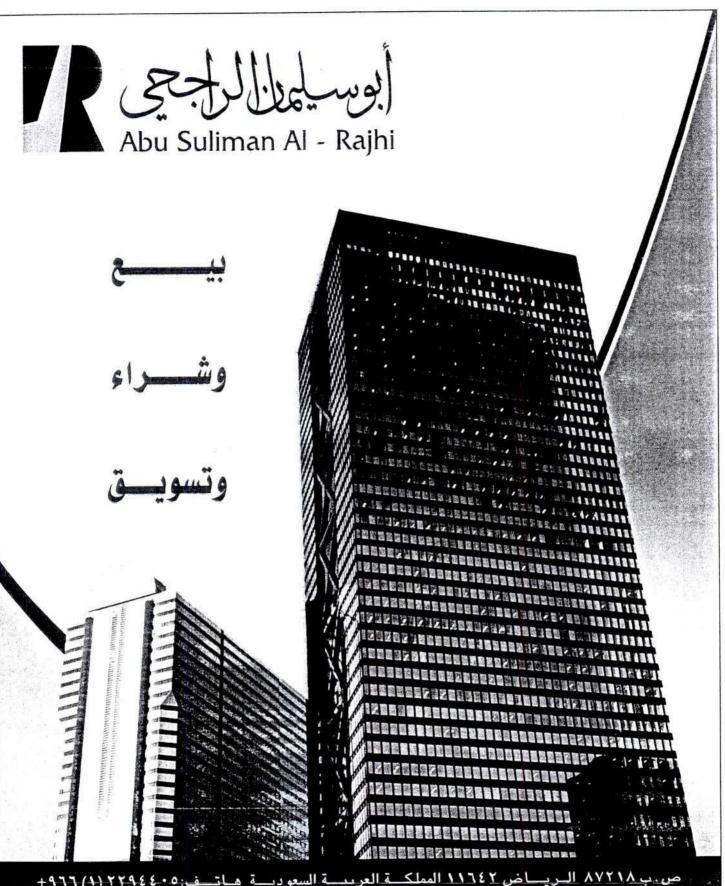


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Division 2 Site Works



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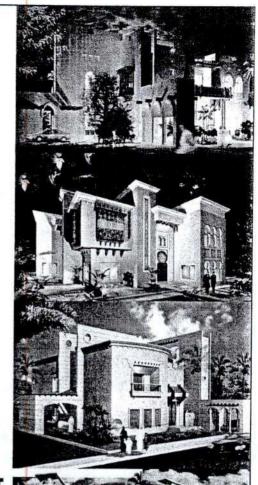
جو ال ١٥ ٢٩ ٢٩ ٢٥ ٥ ٥ ٦٦ ٩ + فاكس: ٢٠ ٢٩٤٤ (١) ٢٢٩٤ طريق الملك عبد الله - شمال شرق جامع العويضة P.O.Box 87218 Riyadh 11642 Kingdom of Saudi Arabia Tel.:+966 (1) 2294405 Mobile: +966 505429685 Fax.:+966 (1) 2294406 Abdul allah King Road - North East Al Owaidh Mosque www.abusulimanalrajhi.com

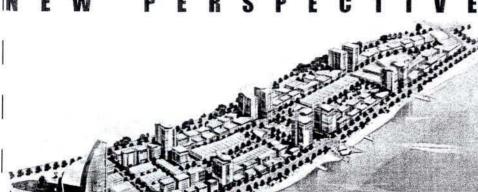


المنظـور الحـديث

مكتب المنظور الحديث للعمارة والتخطيط تم تأسيسها في المملكة العربية السعودية في 2002م. نحن متخصصون في العمارة, والتخطيط العمراني وسياسات التنمية نعمل جاهدين على مد جسور التواصل بينننا وبين عملائنا في القطاعين العام والخاص بمنظومة من خدمات التصميم, التخطيط و سياسات التنمية والاستشارات في مجالات الأخرى.

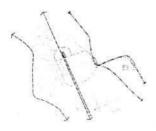
إن هذه المنظومة من الخبرات والمعرفة العالمية تتيح لنا مدى واسع من القدرات على تقديم خدمة متميزة في كل مجالات النشاط العملي التي تغطي ميادين واسعة من التنمية.





ARCHITECTURE & PLANNING







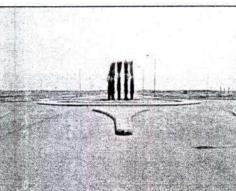


ص.ب 88922 الرباض 11672 الملكة العربية السعودية - هاتف: +96614709070 فاكس: +1672 www.np-designs.com



شركة جودكم للمقاولات والتجارة المحدودة تجارة - مقاولات - صيانة







الأدارة الرئيسية : الرياض - حي النخيل - طريق الملك فهد - مقابل هايبر بنده - الممكلة العربية السعودية - ص.ب ٣٣٩٩٧ الرمز البريدي ١١٤٣٨ هاتف ٤٧٠٧٣٧٣ - فاكس ٤٧٠٧٣١ - فاكس E-mail: info@joudcom.com - ٤٧٠٧٣١١ العربية السعودية -



الشركة المتقدمة للمشاريع المتطورة Advanced Co. for Developed Projects



- + تنفيك الشبكات مع التوصيلات لمشاريع المياه.
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 - تنفيذ شبكات الصرف الصحي.
 - * تنفيذ الطرق والجسور والسدود.
 - * تنفيذ المباني.

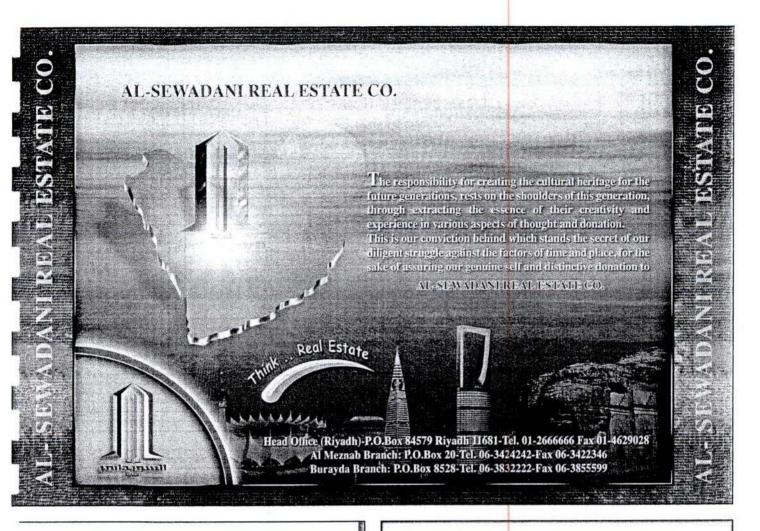








الشركة المتقدمة للمشاريع المنطورة ذ.م.م من ب ۱۹۷۸ ماريدس ۱۱۵۳۳ مارس ۱۹۷۸ هاتف ۱۹۷۹ مارس - تحويلة ۱۰۲ هاتف ۲۷۲۵۸۹ مارس خود الاز شارع عمر بن عبدالعزيز - الملز الرياض - المملكة العربية السعودية





الشرعة العربية Arab Company

For Laboratories & Soli L.T.D

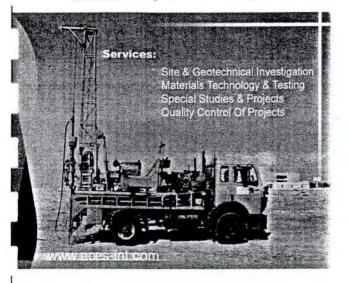
للمختبرات والتربية ذجح











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الديسار ال<mark>سسعودية</mark> للإستشارا<mark>ت الهندسية</mark>



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Division	02:SITE WORK		
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT
020	SUBSURFACE INVESTIGATION & DE	MOLITIC	N
020 120	STANDARD PENETRATION TESTS		
020 125	DRILLING.CORE:		
020 125-0100	Core bit 25 mm dia. upto 300 mm depth	EA	760.00
020 125-0300	Core bit 152 mm dia. upto 430 mm depth		3,024.00
020 125-0350	Core bit 202mm dia. upto 430 mm depth		4,492.00
020 125-0750	Core bit 400 mm dia. upto 500 mm depth	+	9,184.00
022	EARTHWORK:		
022 300	PAVEMENT BASE:		
022 308	BASE COURSE:		
022 308-0300	Base course, 20 mm stone	CUM	26.00
022 308-0320	Base course, crushed 40 mm stone		26.00
022 308-0570	Base course bituminous concrete, metric ton	TON	60.00
022 308-0700	Liquid application to gravel base, asphalt emulsion (200 Ltr./Drum)	DRUM	390.00
022 400	SOIL STABILIZATION		
022 408	GROUTING PRESSURE:		
022 408-0200	Grouting,cement & sand 1:1 mix,average	CUM	488.64
022 408-0400	Cement grouting (30 kg/bag)	KG	1.30
022 408-0500	Geotextile fabric, non-woven needle-punched 100 gm/m2	SQM	1.35
	Geotextile fabric, non-woven needle-punched 120 gm/m2		1.62
	Geotextile fabric, non-woven needle-punched 140 gm/m2		1.89
	Geotextile fabric, non-woven needle-punched 200 gm/m2		2,70
	Geotextile fabric, non-woven needle-punched 300 gm/m2	•	4.05
	Hydrated lime, for base, 2% To 6% mix by weight	TON	550,00
022 700	SLOPE PROTECTION & EROSION CONTROL		
022 704	EROSION CONTROL:	·	
	Jute mesh,1200 mm wide, 85 SQM /roll	SQM	2.58
	Polypropylene mesh, 220 gram/SQM		14.00
022 704-0210	Silt fence, polypropylene RIP-RAP:	↓	7.00
	Rip-rap, random broken stone, for slope protection, 0.29 to 0.19 cum pieces	CUM	260.00
	Gabions, galvanized steel mesh, stone filled, 300 mm deep		
	Gabions, galvanized steel mesh, stone filled, 900 mm deep		91.20
023	TUNNELING, PILES & CAISSONS		210,40
023 600	DRIVEN PILES		
023 604	PILES CONCRETE:		
023 604-1210	Bored cast in situ piles, 500mm diameter	LM	281.75
	Bored cast in situ piles, 750mm diameter		310.50
023 604-1250	Bored cast in situ piles, 1000mm diameter		350.75
023 608	PILES STEEL:		
023 608-0400	Piles steel "H" sections, 18 m long, 250 mm x 250 mm, 63 kg/m	LM	229.20
023 608-0800	Piles steel "H" sections, 18 m long, 300 mm x 300 mm, 110 kg/m		268.75
023 608-1000	Piles steel "H" sections, 18 m long, 350 mm x 350 mm, 109 kg/m	+	395.42

CAMPA STANDARD CONTRACTOR STAND	02:SITE WORK		
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT
024	RAILROAD AND MARINE WORK		
024 520	RAILROAD TRACKWORK		
024 524	RAILROAD:		
024 524-0010	Car bumpers heavy duty	EA	7,178.60
024 524-1020	Rail 47 Kg	LM	517.5
024 524-2400	Wheel stops	PR.	1,200.0
025	PAVING & SURFACING		
025 100	WALK/ROAD/PARKING PAVING		
025 104	ASPHALTIC CONCRETE PAVEMENT:		
025 104-0810	Asphalt concrete pavement, binder course	MET.TON	75.00
025 104-0850	Asphalt concrete pavement, wearing course	10	75.00
025 128	SIDEWALKS, DRIVEWAYS, & PATIOS		
025 128-1000	Sidewalk,crushed stone, white marble	CUM	2,800.00
025 128-1660	Sidewalk, limestone pavers, 215 mm x 102.5 mm 65 mm	1000 PCS	350.00
025 128-1670	Sidewalk, limestone pavers, 215 mm x 50 mm x 65 mm		300.00
025 128-1680	Sidewalk, limestone pavers, 215 mm x 205 mm x 65 mm	1	720.00
025 150	UNIT PAVERS		(M) (E) (F)
025 158	BRICK PAVING:		
025 158-0300	Brick pavers, 100 mm x 200 mm x 80 mm	SQM	1,050.00
025 162	CONCRETE BLOCK PAVERS:		
025 162-0720	Pavers Precast concrete 50 mm thick, 400 mm x 400 mm	SQM	10.00
025 166	STONE PAVERS:		
025 166-1100	Stone pavers, irregular, 25 mm thick	SQM	60.00
025 166-1250	Stone pavers,random,rectangular, 50 mm thick		48.00
025 166-1550	Pavers, granite blocks, 90 mm x 90 mm x 90 mm		1,900.00
025 250	CURBS		
025 254	CURBS:		
025 254-0300	Curbs, Concrete, 200 mm x 400 mm precast	LM	43.00
025 254-0350	Curbs, Concrete, 250 mm x 300 mm x 150 mm		14.00
025 254-0360	Curbs, Concrete, 500 mm x 200 mm x 150 mm		9.00
025 254-0370	Curbs, Concrete, 500 mm x 300 mm x 100 mm		9.00
025 254-0380	Curbs, Concrete, 500 mm x 300 mm x 150 mm		10.00
025 254-0550	Curb & gutter precast, 200 mm high curb, 150 mm thick gutter, 1.2 m,straight		35.00
025 254-0600	Concrete gutters 150 mm x 150 mm x 150 mm		9.84
025 300	ATHLETIC PAVE/SURFACING		The second second
025 304	RUNNING TRACK:		eller mit beller ster
025 304-0010	Running tack surfacing rubberized flooring	SQM	175.00
025 304-0020	Artificial grass for soccer field		6.00
025 304-0030	Outdoor multipurpose rubberized flooring	B. 4	165.00
	Outdoor multipurpose acrylic flooring	- +	50.00
025 308	TENNIS COURT:	34 a 1 24 1	
025 308-1400	Tennis court,post & net	SET	1,325.00
	Tennis court,net, 13 m long,nylon thread with binder	EA	840.00

Division	02:SITE WORK		
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT
025 400	SYNTHETIC SURFACING		
025 404	TURF, ARTIFICIAL:		
025 404-0910		SQM	6.00
026	PIPED UTILITIES		7 1
026 050	MANHOLES & CLEANOUTS		
026 054	UTILITY VAULTS:		
020 034		Ι	
026 054-0100	Reinforced Concrete circular type manholes, inner dia 1200 mm with 180 mm wall thickness, 3 m high installed with galvanized steel steps @ 30 cm center to center, externally coated with bitumen emulsion	EA	995.00
026 054-0300	Reinforced Concrete circular type manholes, inner dia 600 mm with 140 mm wall thickness, 3 m high installed with galvanized steel steps @ 30 cm center to center, externally coated with bitumen emulsion	EA	482.00
026 400	VALVES & COCKS		
026 404	PIPING VALVES: Water distribution, see also DIV.151-90	0	engles and an arrange
026 404-3100	Piping valve,butterfly, cast iron,mechanical joint, 100 mm diameter (4")	EA	2,352.70
	Piping valve, butterfly, cast iron, mechanical joint, 200 mm diameter (8")		2,975.00
026 404-3190	Piping valve, butterfly, double flanged, double eccentric, gear operated, 200 mm diameter (8")		3,609.20
026 404-3500	Piping valve, butterfly, cast iron, mechanical joint, 600 mm diameter (24") lever operated		22,656.00
026 404-3510	Piping valve,butterfly,double flanged,double eccentric,gear operated, 600 mm diameter (24")		24,745.00
026 404-3610	Piping valve, butterfly, cast iron, mechanical joint, & with lever operator size 100 mm		2,722.30
026 404-3616	Piping valve,butterfly, cast iron,mechanical joint,& with lever operator size 200 mm		5,000.00
026 404-3714	Piping valve,check,flanged 150mm diameter		2,300.20
026 404-3716	Piping valve,check,flanged 200 mm diameter		4,186.00
026 404-3720	Piping valve,check,flanged 300 mm diameter		10,955.70
026 404-3810	Piping valve,gate,flanged, 100 mm diameter		2,150.00
026 404-3814	Piping valve,gate,flanged,150 mm diameter		1,050.00
026 404-3816	Piping valve,gate,flanged, 200 mm diameter		2,100.00
	Piping valve,gate,flanged, 300 mm diameter		4,400.00
026 404-3842	Piping valve,gate,flanged with boxes,size 100 mm diameter		581.00
026 404-3850	Piping valve,gate,flanged with boxes,size 300 mm diameter		1,200 00
026 404-3860	Piping valve,gate,flanged with boxes,size 600 mm diameter		34,064.80
026 404-3910	Piping valve,globe,flanged,iron body,size 100 mm diameter		930.30
	Piping valve,globe,flanged,iron body,size 150 mm diameter		930.30
026 404-3916	Piping valve,globe,flanged,iron body,size 200 mm diameter	+	1.472.10
026 450	HYDRANTS		
026 454	PIPING WATER DISTRIBUTION:		
026 454-2400	Hydrant,low barrel extensions with stems, 300 mm	EA	3.507.00
026 454-2520	Hydrant,low barrel extensions with stems, 1200 mm		4 557.00
026 454-2600	Hydrant,dry barrel extensions with stems, 100 mm		2,866.50
026 454-2420	Hydrant,dry barrel extensions with stems, 150 mm		3,692.85

026 454-5070 Hydrant.Indicating post,adjustable, valve size 100 mm to 350 mm, 2.5 m bury 026 454-5070 Hydrant.Indicating post,adjustable valve size 100 mm to 800 mm, 2.5 m bury 026 650 WATER SYSTEMS 026 686-1410 Water pipings ductile iron cament lined, push on joints, sections 6 m long, size 6 m long, size 150 mm (4°) 026 686-1420 Water pipings, ductile iron cament lined, push on joints, sections 6 m long, size 150 mm (6°) 026 686-1430 Water pipings, ductile iron cament lined, push on joints, sections 6 m long, size 200 mm (8°) 026 686-1440 Water pipings, ductile iron cament lined, push on joints, sections 6 m long, size 250 mm (10°) 026 686-1440 Water pipings, ductile iron cament lined, push on joints, sections 6 m long, size 250 mm (10°) 026 686-1470 Water pipings, ductile iron cament lined, push on joints, sections 6 m long, size 350 mm (10°) 026 686-1470 Water pipings, ductile iron cament lined, push on joints, sections 6 m long, size 400 mm (16°) 026 686-1470 Water pipings, ductile iron cament lined, push on joints, sections 6 m long, size 400 mm (16°) 026 686-1470 Water pipings, ductile iron cament lined, push on joints, sections 6 m long, size 400 mm (16°) 026 686-1470 Water pipings, ductile iron cament lined, push on joints, sections 6 m long, size 400 mm (16°) 026 686-1470 Water pipings, ductile iron cament lined, push on joints, sections 6 m long, size 800 mm (20°) 026 686-2900 Water piping, PVC, Class 5, 50 mm diameter 026 686-2900 Water piping, PVC, Class 5, 160 mm diameter 026 686-2900 Fittings, ductile iron, mechanical joint, 90 deg, bend 300 mm diameter (12°) 026 686-8000 Fittings, ductile iron, double socket bend 90 deg, 200 mm 026 686-8000 Fittings, ductile iron, double socket bend 90 deg, 300 mm 026 686-8000 Fittings, ductile iron, double socket bend 90 deg, 300 mm 026 686-8400 Fittings, ductile iron, double fange 90 deg, 100 mm 026 686-8400 Fittings, ductile iron, double fange 90 deg, 300 mm 026 686-8400 Fittings, ductile iron, double fange 90 deg, 300 mm 026 686-8400	SI ODE	ITEM DESCRIPTION	UNIT	COST PER UNIT
026 650 WATER SYSTEMS 026 686 PIPING WATER DISTRIBUTION: 026 686-1410 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 200 mm (10") 026 686-1420 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 200 mm (10") 026 686-1430 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 200 mm (8") 026 686-1440 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 200 mm (8") 026 686-1440 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 200 mm (10") 026 686-1440 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 200 mm (10") 026 686-1440 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 300 mm (12") 026 686-1440 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 300 mm (12") 026 686-1470 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 300 mm (12") 026 686-1470 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 300 mm (20") 026 686-1570 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 300 mm (20") 026 686-1570 Water pipings, but celle iron cement lined, push on joints, sections 6 m long, size 300 mm (20") 026 686-1570 Fittings, ductile iron, enchanical joint, 90 deg. bend 300 mm diameter (12") 026 686-8000 Fittings, ductile iron, mechanical joint, 90 deg. bend 300 mm diameter (12") 026 686-8000 Fittings, ductile iron, flouble socket bend 90 deg. bom m diameter (12") 026 686-8000 Fittings, ductile iron, double socket bend 90 deg. 150 mm 026 686-8120 Fittings, ductile iron, double socket bend 90 deg. 300 mm 026 686-8200 Fittings, ductile iron, double flange 90 deg. 150 mm 026 686-8200 Fittings, ductile iron, double flange 90 deg. 150 mm 026 686-8400 Fittings, ductile iron, double flange 90 deg. 150 mm 026 686-8400 Fittings, ductile iron, double flange 90 deg. 300 mm		Hydrant indicating post adjustable valve size 100 mm to 350 mm, 2.5 m bury	1	4,851.00
226 686 PIPING WATER DISTRIBUTION: 026 686-1410 026 686-1420 026 686-1420 026 686-1420 026 686-1430 026 686-1430 026 686-1430 026 686-1440 026 686-1440 026 686-1440 026 686-1440 026 686-1440 026 686-1440 026 686-1440 027 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 800 mm (6°) 026 686-1440 026 686-1440 027 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 900 mm (6°) 026 686-1440 027 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 300 mm (10°) 026 686-1440 027 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 300 mm (12°) 026 686-1460 027 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 400 mm (14°) 027 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 350 mm (14°) 028 686-1471 029 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 350 mm (12°) 026 686-1570 026 686-1570 027 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 800 mm (20°) 026 686-200 027 Water piping, PVC, Class 5, 50 mm diameter 028 688-200 029 Water piping, PVC, Class 5, 50 mm diameter 026 688-200 027 Fittings, ductile iron, mechanical joint, 90 deg. bend 300 mm diameter (12°) 028 688-800 029 Fittings, ductile iron, double socket bend 90 deg. 100 mm 029 688-800 026 688-800 027 Fittings, ductile iron, double socket bend 90 deg. 100 mm 026 688-820 027 Fittings, ductile iron, double flange 90 deg. 100 mm 028 688-820 028 Fittings, ductile iron, double flange 90 deg. 100 mm 029 688-840 029 Fittings, ductile iron, double flange 90 deg. 100 mm 029 688-840 029 Fittings, ductile iron, double flange 90 deg. 100 mm 029 688-840 029 Fittings, ductile iron, double flange 90 deg. 100 mm 029 688-840 029 Fittings, ductile iron, double flange 90 deg. 100 mm 029 688-840 029 Fittings, ductile iron, double flange 90 deg. 100 mm 029 688-840 029 Fitting		The second control of	ΕΛ	1,928.8
226 686 PIPING WATER DISTRIBUTION:			LA	1,920.0.
Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 100 mm (4") Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 150 mm (6") Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 200 mm (8") Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 200 mm (10") Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 300 mm (10") Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 300 mm (12") Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 300 mm (12") Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 400 mm (18") Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 400 mm (18") Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 400 mm (20") Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 500 mm (20") Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 600 mm (24") Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 600 mm (24") Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 600 mm (24") Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 600 mm (24") Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 400 mm (24") Water pipings, ductile iron demander (20") Water pipings, pvC, Class 5, 50 mm diameter (20") Water piping, pvC, Class 5, 50 mm diameter (20") Water pipings, ductile iron, flanged, 90 deg, bend 300 mm diameter (12") Water pipings, ductile iron, flanged, 90 deg, bend 300 mm diameter (12") Water pipings, ductile iron, flanged, 90 deg, bend 150 mm diameter (6") Water pipings, ductile iron, double socket bend 90 deg, 300 mm (26 868-81240 Fittings, ductile iron, double flange 90	October 11 11 11 11 11 11 11 11 11 11 11 11 11			1100
Section Sect				_
150 mm (6")	026 686-1410	6 m long,size 100 mm (4")	EA	660.00
Size 200 mm (8") Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 250 mm (10") Size 250 mm (10") Size 250 mm (10") Size 250 mm (10") Size 300 mm (12") Size 300 mm (14") Size 350 mm (14") Size 350 mm (14") Size 350 mm (14") Size 350 mm (14") Size 550 mm (14") Size 550 mm (14") Size 500 mm (20") Size 500			EA	840.0
1026 686-1470 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 300 mm (12") 1026 686-1470 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 400 mm (16") 26 686-1470 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 400 mm (14") 26 686-1471 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 350 mm (14") 27 6 686-1471 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 500 mm (20") 28 6 686-1570 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 500 mm (24") 28 6 686-2700 Water piping, PVC, Class 5, 50 mm diameter 28 6 686-2900 Water piping, PVC, Class 5, 150 mm diameter 28 6 686-2900 Pittings, ductile iron, mechanical joint, 90 deg. bend 300 mm diameter (12") 28 6 686-8000 Pittings, ductile iron, mechanical joint, 90 deg. bend 300 mm diameter (12") 28 6 686-8000 Pittings, ductile iron, mechanical joint, 90 deg. bend 150 mm diameter (6") 28 686-8000 Pittings, ductile iron, double socket bend 90 deg. 100 mm 28 6 686-8000 Pittings, ductile iron, double socket bend 90 deg. 200 mm 28 6 686-8000 Pittings, ductile iron, double socket bend 90 deg. 200 mm 28 6 686-8200 Pittings, ductile iron, double flange 90 deg. 100 mm 28 6 686-8200 Pittings, ductile iron, double flange 90 deg. 100 mm 28 6 686-8200 Pittings, ductile iron, double flange 90 deg. 100 mm 28 6 686-8200 Pittings, ductile iron, double flange 90 deg. 200 mm 28 6 686-8200 Pittings, ductile iron, double flange 90 deg. 300 mm 28 6 686-8200 Pittings, ductile iron, double flange 90 deg. 300 mm 28 6 686-8200 Pittings, ductile iron, double flange 90 deg. 300 mm 30 686-8200 Pittings, ductile iron, double flange 90 deg. 300 mm 30 686-8200 Pittings, ductile iron, double flange 90 deg. 300 mm 30 686-8200 Pittings, ductile iron, double flange 90 deg. 300 mm 30 686-8200 Pittings, ductile i			EA	990.00
026 686-1470 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 300 mm (12°) 026 686-1470 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 350 mm (14°) 026 686-1477 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 350 mm (14°) 026 686-1477 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 500 mm (20°) 026 686-1470 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 500 mm (20°) 026 686-2700 Water piping, PVC, Class 5, 50 mm diameter 026 686-2900 Water piping, PVC, Class 5, 160 mm diameter 026 686-8000 Fittings, ductile iron, mechanical joint, 90 deg. bend 300 mm diameter (12°) 026 686-8000 Fittings, ductile iron, flanged, 90 deg. bend 300 mm diameter (12°) 026 686-8000 Fittings, ductile iron, mechanical joint, 90 deg. bend 150 mm diameter (6°) 026 686-8000 Fittings, ductile iron, double socket bend 90 deg. 150 mm 026 686-8000 Fittings, ductile iron, double socket bend 90 deg. 200 mm 026 686-8020 Fittings, ductile iron, double socket bend 90 deg. 300 mm 026 686-8020 Fittings, ductile iron, double socket bend 90 deg. 300 mm 026 686-8020 Fittings, ductile iron, double socket bend 90 deg. 300 mm 026 686-8020 Fittings, ductile iron, double flange 90 deg. 150 mm 026 686-8020 Fittings, ductile iron, double flange 90 deg. 200 mm 026 686-8020 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8020 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8080 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8080 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8080 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8080 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8080 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8080 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8080 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8080 Fittings, du				1,230.00
026 686-1450 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 400 mm (16") 026 686-1470 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 350 mm (14") 026 686-1477 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 500 mm (20") 026 686-1570 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 500 mm (20") 026 686-2700 Water piping, PVC, Class 5, 50 mm diameter 026 686-2900 Water piping, PVC, Class 5, 160 mm diameter 026 686-2900 Water piping, PVC, Class 5, 160 mm diameter 026 686-8000 Fittings, ductile iron, mechanical joint, 90 deg. bend 300 mm diameter (12") 026 686-8000 Fittings, ductile iron, flanged, 90 deg. bend 300 mm diameter (12") 026 686-8000 Fittings, ductile iron, double socket bend 90 deg. 150 mm 026 686-8000 Fittings, ductile iron, double socket bend 90 deg. 200 mm 026 686-8120 Fittings, ductile iron, double socket bend 90 deg. 200 mm 026 686-8200 Fittings, ductile iron, double socket bend 90 deg. 300 mm 026 686-8200 Fittings, ductile iron, double flange 90 deg. 150 mm 026 686-8200 Fittings, ductile iron, double flange 90 deg. 100 mm 026 686-8200 Fittings, ductile iron, double flange 90 deg. 100 mm 026 686-8200 Fittings, ductile iron, double flange 90 deg. 100 mm 026 686-8200 Fittings, ductile iron, double flange 90 deg. 100 mm 026 686-8200 Fittings, ductile iron, double flange 90 deg. 200 mm 026 686-8400 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8400 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8400 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8400 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8400 Fittings, ductile iron, wye or tee, 150mm diameter (4") socket 026 704 WELLS: 026 704 WELLS: Water pump, for wells to 30 m deep, 100 mm submersible, 3 HP (cast iron) Water pump, for wells to 30 m deep, 100 mm submersible, with motor complete with accessories, 3 HP	026 696 1470	Water pipings, ductile iron cement lined, push on joints, sections 6 m long,		1,500.00
026 686-1470 026 686-1471 026 686-1471 026 686-1477 026 686-1570 026 686-2700 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 600 mm (24") 026 686-2900 Water piping, PVC, Class 5, 50 mm diameter 026 686-2900 Water piping, PVC, Class 5, 160 mm diameter 026 686-2950 Water piping, PVC, Class 5, 160 mm diameter 026 686-8000 Fittings, ductile iron, mechanical joint, 90 deg. bend 300 mm diameter (12") 026 686-8010 Fittings, ductile iron, flanged, 90 deg. bend 300 mm diameter (12") 026 686-8020 Fittings, ductile iron, double socket bend 90 deg. 150 mm 026 686-8040 Fittings, ductile iron, double socket bend 90 deg. 200 mm 026 686-8120 Fittings, ductile iron, double socket bend 90 deg. 200 mm 026 686-8200 Fittings, ductile iron, double socket bend 90 deg. 300 mm 026 686-8200 Fittings, ductile iron, double socket bend 90 deg. 300 mm 026 686-8200 Fittings, ductile iron, double flange 90 deg. 100 mm 026 686-8200 Fittings, ductile iron, double flange 90 deg. 150 mm 026 686-8200 Fittings, ductile iron, double flange 90 deg. 150 mm 026 686-8200 Fittings, ductile iron, double flange 90 deg. 100 mm 026 686-8200 Fittings, ductile iron, double flange 90 deg. 200 mm 026 686-8200 Fittings, ductile iron, double flange 90 deg. 200 mm 026 686-8200 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8400 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8400 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8490 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8490 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8490 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8490 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8490 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8490 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8490 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8490 Fittings, ductile iron, double flange 90 deg. 3	026 686-1460	Water pipings, ductile iron cement lined, push on joints, sections 6 m long,		2,700.0
026 686-1570 Size 500 mm (20") 026 686-1570 Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size 600 mm (24") 026 686-2700 Water piping, PVC, Class 5, 50 mm diameter 026 686-2900 Water piping, PVC, Class 5, 160 mm diameter 026 686-2950 Water piping, PVC, Class 5, 125 mm diameter 026 686-8000 Fittings, ductile iron,mechanical joint, 90 deg. bend 300 mm diameter (12") 026 686-8010 Fittings,ductile iron,fianged, 90 deg. bend 300 mm diameter (12") 026 686-8020 Fittings,ductile iron,double socket bend 90 deg. 150 mm diameter (6") 026 686-8080 Fittings,ductile iron,double socket bend 90 deg. 150 mm 026 686-8120 Fittings,ductile iron,double socket bend 90 deg. 200 mm 026 686-8200 Fittings,ductile iron,double socket bend 90 deg. 300 mm 026 686-8220 Fittings,ductile iron,double flange 90 deg. 150 mm 026 686-8280 Fittings,ductile iron,double flange 90 deg. 150 mm 026 686-8280 Fittings,ductile iron,double flange 90 deg. 150 mm 026 686-8290 Fittings,ductile iron,double flange 90 deg. 200 mm 026 686-8290 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8290 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8280 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8290 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,ductile iron, wye or tee, 150mm diameter (4") socket 026 700 WATER WELLS 026 704-1950 Water pump, for wells to 30 m deep, 100 mm submersible, 3 HP (cast iron) EA				2,100.0
026 686-2700 Water piping, PVC, Class 5, 50 mm diameter 026 686-2900 Water piping, PVC, Class 5, 160 mm diameter 026 686-2950 Water piping, PVC, Class 5, 125 mm diameter 026 686-8000 Fittings,ductile iron,mechanical joint, 90 deg. bend 300 mm diameter (12") 026 686-8010 Fittings,ductile iron,flanged, 90 deg. bend 300 mm diameter (12") 026 686-8020 Fittings,ductile iron,double socket bend 90 deg. 150 mm 026 686-8080 Fittings,ductile iron,double socket bend 90 deg. 150 mm 026 686-8120 Fittings,ductile iron,double socket bend 90 deg. 200 mm 026 686-8200 Fittings,ductile iron,double socket bend 90 deg. 300 mm 026 686-8200 Fittings,ductile iron,double flange 90 deg. 100 mm 026 686-8200 Fittings,ductile iron,double flange 90 deg. 150 mm 026 686-8200 Fittings,ductile iron,double flange 90 deg. 200 mm 026 686-8200 Fittings,ductile iron,double flange 90 deg. 200 mm 026 686-8200 Fittings,ductile iron,double flange 90 deg. 200 mm 026 686-8200 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8200 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8200 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8470 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,duc	(12h h8h-14/11	[2,760.0
026 686-2900 Water piping, PVC, Class 5, 160 mm diameter 026 686-2950 Water piping, PVC, Class 5, 225 mm diameter 026 686-8000 Fittings, ductile iron, mechanical joint, 90 deg. bend 300 mm diameter (12") 026 686-8010 Fittings, ductile iron, flanged, 90 deg. bend 300 mm diameter (12") 026 686-8020 Fittings, ductile iron, mechanical joint, 90 deg. bend 150 mm diameter (6") 026 686-8040 Fittings, ductile iron, double socket bend 90 deg. 150 mm 026 686-8080 Fittings, ductile iron, double socket bend 90 deg. 150 mm 026 686-8120 Fittings, ductile iron, double socket bend 90 deg. 200 mm 026 686-8200 Fittings, ductile iron, double socket bend 90 deg. 300 mm 026 686-820 Fittings, ductile iron, double flange 90 deg. 150 mm 026 686-8240 Fittings, ductile iron, double flange 90 deg. 200 mm 026 686-8280 Fittings, ductile iron, double flange 90 deg. 200 mm 026 686-8470 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8480 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8490 Fittings, ductile iron, wye or tee, 150mm diameter (4") socket 026 686-8500 Fittings, ductile iron, wye or tee, 150mm diameter (6") socket 026 700 WATER WELLS 026 704-1900 Water pump, for wells to 30 m deep, 100 mm submersible, 3 HP (cast iron) Water pump, for wells to 30 m deep, 100 mm submersible, with motor complete with accessories, 3 HP (stainless steel)	026 686-1570	Water pipings, ductile iron cement lined, push on joints, sections 6 m long, size		3,600.0
026 686-2950 Water piping, PVC, Class 5, 225 mm diameter 026 686-8000 Fittings, ductile iron, mechanical joint, 90 deg. bend 300 mm diameter (12") 026 686-8010 Fittings, ductile iron, flanged, 90 deg. bend 300 mm diameter (12") 026 686-8020 Fittings, ductile iron, mechanical joint, 90 deg. bend 150 mm diameter (6") 026 686-8040 Fittings, ductile iron, double socket bend 90 deg. 100 mm 026 686-8080 Fittings, ductile iron, double socket bend 90 deg. 200 mm 026 686-8120 Fittings, ductile iron, double socket bend 90 deg. 200 mm 026 686-8220 Fittings, ductile iron, double socket bend 90 deg. 300 mm 026 686-8240 Fittings, ductile iron, double flange 90 deg. 150 mm 026 686-8240 Fittings, ductile iron, double flange 90 deg. 200 mm 026 686-8280 Fittings, ductile iron, double flange 90 deg. 200 mm 026 686-8470 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8480 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8490 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8490 Fittings, ductile iron, we or tee, 150mm diameter (4") socket 026 686-8500 Fittings, ductile iron, we or tee, 150mm diameter (6") socket 026 700 WATER WELLS 026 704-1900 Water pump, for wells to 30 m deep, 100 mm submersible, 3 HP (cast iron) EA 026 704-1950 Water pump, for wells to 30 m deep, 100 mm submersible, with motor complete with accessories, 3 HP (stainless steel)	026 686-2700	Water piping, PVC, Class 5, 50 mm diameter		30.0
026 686-8000 Fittings,ductile iron,mechanical joint, 90 deg. bend 300 mm diameter (12") 026 686-8010 Fittings,ductile iron,flanged, 90 deg. bend 300 mm diameter (12") 026 686-8020 Fittings,ductile iron,mechanical joint, 90 deg. bend 150 mm diameter (6") 026 686-8040 Fittings,ductile iron,double socket bend 90 deg. 100 mm 026 686-8080 Fittings,ductile iron,double socket bend 90 deg. 150 mm 026 686-8120 Fittings,ductile iron,double socket bend 90 deg. 200 mm 026 686-8200 Fittings,ductile iron,double socket bend 90 deg. 300 mm 026 686-8220 Fittings,ductile iron,double flange 90 deg. 150 mm 026 686-8240 Fittings,ductile iron,double flange 90 deg. 200 mm 026 686-8280 Fittings,ductile iron,double flange 90 deg. 200 mm 026 686-8480 Fittings,ductile iron,double flange 90 deg. 200 mm 026 686-8480 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,ductile iron, wye or tee, 150mm diameter (4") socket 026 700 WATER WELLS 026 704-1950 Water pump, for wells to 30 m deep, 100 mm submersible, 3 HP (cast iron) Water pump, for wells to 30 m deep, 100 mm submersible, with motor complete with accessories, 3 HP (stainless steel)	026 686-2900	Water piping, PVC, Class 5, 160 mm diameter		47.5
026 686-8020 Fittings,ductile iron,flanged, 90 deg. bend 300 mm diameter (12") 026 686-8020 Fittings,ductile iron,mechanical joint, 90 deg. bend 150 mm diameter (6") 026 686-8040 Fittings,ductile iron,double socket bend 90 deg.100 mm 026 686-8080 Fittings,ductile iron,double socket bend 90 deg.150 mm 026 686-8120 Fittings,ductile iron,double socket bend 90 deg.200 mm 026 686-8200 Fittings,ductile iron,double socket bend 90 deg.300 mm 026 686-8220 Fittings,ductile iron,double flange 90 deg. 100 mm 026 686-8240 Fittings,ductile iron,double flange 90 deg. 150 mm 026 686-8280 Fittings,ductile iron,double flange 90 deg. 200 mm 026 686-8470 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8480 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,ductile iron, wye or tee, 150mm diameter (4") socket 026 700 WATER WELLS 026 704 WELLS: 026 704-1950 Water pump, for wells to 30 m deep, 100 mm submersible, 3 HP (cast iron) Water pump, for wells to 30 m deep, 100 mm submersible, with motor complete with accessories, 3 HP (stainless steel)	026 686-2950	Water piping, PVC, Class 5, 225 mm diameter		73.0
026 686-8020 Fittings,ductile iron,double socket bend 90 deg.100 mm 026 686-8080 Fittings,ductile iron,double socket bend 90 deg.150 mm 026 686-8120 Fittings,ductile iron,double socket bend 90 deg.200 mm 026 686-8200 Fittings,ductile iron,double socket bend 90 deg.200 mm 026 686-8220 Fittings,ductile iron,double socket bend 90 deg.300 mm 026 686-8220 Fittings,ductile iron,double flange 90 deg. 100 mm 026 686-8240 Fittings,ductile iron,double flange 90 deg. 150 mm 026 686-8280 Fittings,ductile iron,double flange 90 deg. 200 mm 026 686-8480 Fittings,ductile iron,double flange 90 deg. 200 mm 026 686-8480 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,ductile iron, were or tee, 150mm diameter (4") socket 026 686-8500 Fittings,ductile iron, wye or tee, 150mm diameter (6") socket 026 700 WATER WELLS 026 704 WELLS: 026 704-1950 Water pump, for wells to 30 m deep, 100 mm submersible, with motor complete with accessories, 3 HP (stainless steel)	026 686-8000	Fittings,ductile iron,mechanical joint, 90 deg. bend 300 mm diameter (12")		796.0
026 686-8040 Fittings, ductile iron, double socket bend 90 deg. 100 mm 026 686-8080 Fittings, ductile iron, double socket bend 90 deg. 150 mm 026 686-8120 Fittings, ductile iron, double socket bend 90 deg. 200 mm 026 686-8200 Fittings, ductile iron, double socket bend 90 deg. 300 mm 026 686-8220 Fittings, ductile iron, double flange 90 deg. 100 mm 026 686-8240 Fittings, ductile iron, double flange 90 deg. 150 mm 026 686-8280 Fittings, ductile iron, double flange 90 deg. 200 mm 026 686-8470 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8480 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8490 Fittings, ductile iron, double flange 90 deg. 300 mm 026 686-8500 Fittings, ductile iron, wye or tee, 150mm diameter (4") socket 026 700 WATER WELLS 026 704 WELLS: 026 704-1950 Water pump, for wells to 30 m deep, 100 mm submersible, 3 HP (cast iron) EA 026 704-1950 Water pump, for wells to 30 m deep, 100 mm submersible, with motor complete with accessories, 3 HP (stainless steel)	026 686-8010	Fittings,ductile iron,flanged, 90 deg. bend 300 mm diameter (12")		796.0
026 686-8080 Fittings,ductile iron,double socket bend 90 deg.150 mm 026 686-8120 Fittings,ductile iron,double socket bend 90 deg.200 mm 026 686-8200 Fittings,ductile iron,double socket bend 90 deg.300 mm 026 686-8220 Fittings,ductile iron,double flange 90 deg. 100 mm 026 686-8240 Fittings,ductile iron,double flange 90 deg. 150 mm 026 686-8280 Fittings,ductile iron,double flange 90 deg. 200 mm 026 686-8470 Fittings,ductile iron,double flange 90 deg. 200 mm 026 686-8480 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8500 Fittings,ductile iron, wye or tee, 150mm diameter (4") socket 026 700 WATER WELLS 026 704 WELLS: 026 704-1900 Water pump,for wells to 30 m deep, 100 mm submersible, 3 HP (cast iron) EA 3026 704-1950 Water pump, for wells to 30 m deep, 100 mm submersible, with motor complete with accessories, 3 HP (stainless steel)	026 686-8020	Fittings,ductile iron,mechanical joint, 90 deg. bend 150 mm diameter (6")		256.0
026 686-8120 Fittings,ductile iron,double socket bend 90 deg.200 mm 026 686-8200 Fittings,ductile iron,double socket bend 90 deg.300 mm 026 686-8220 Fittings,ductile iron,double flange 90 deg. 100 mm 026 686-8240 Fittings,ductile iron,double flange 90 deg. 150 mm 026 686-8280 Fittings,ductile iron,double flange 90 deg. 200 mm 026 686-8470 Fittings,ductile iron,double flange 90 deg. 200 mm 026 686-8480 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,ductile iron, wye or tee, 150mm diameter (4") socket 026 686-8490 Fittings,ductile iron, wye or tee, 150mm diameter (6") socket 026 686-8500 Fittings,ductile iron, wye or tee, 150mm diameter (6") socket 026 704 WELLS: 026 704-1900 Water pump,for wells to 30 m deep, 100 mm submersible, 3 HP (cast iron) EA 3026 704-1950 Water pump, for wells to 30 m deep, 100 mm submersible, with motor complete with accessories, 3 HP (stainless steel)	026 686-8040	Fittings,ductile iron,double socket bend 90 deg.100 mm		110.0
026 686-8120 Fittings,ductile iron,double socket bend 90 deg.200 mm 026 686-8200 Fittings,ductile iron,double socket bend 90 deg.300 mm 026 686-8220 Fittings,ductile iron,double flange 90 deg. 100 mm 026 686-8240 Fittings,ductile iron,double flange 90 deg. 150 mm 026 686-8280 Fittings,ductile iron,double flange 90 deg. 200 mm 026 686-8470 Fittings,ductile iron,double flange 90 deg. 200 mm 026 686-8480 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,ductile iron, wye or tee, 150mm diameter (4") socket 026 686-8500 Fittings,ductile iron, wye or tee, 150mm diameter (6") socket 026 700 WATER WELLS 026 704 WELLS: 026 704-1900 Water pump,for wells to 30 m deep, 100 mm submersible, 3 HP (cast iron) EA 026 704-1950 Water pump, for wells to 30 m deep, 100 mm submersible, with motor complete with accessories, 3 HP (stainless steel)	026 686-8080	Fittings, ductile iron, double socket bend 90 deg. 150 mm		200.0
026 686-8200 Fittings,ductile iron,double socket bend 90 deg. 300 mm 026 686-8220 Fittings,ductile iron,double flange 90 deg. 100 mm 026 686-8240 Fittings,ductile iron,double flange 90 deg. 150 mm 026 686-8280 Fittings,ductile iron,double flange 90 deg. 200 mm 026 686-8470 Fittings,ductile iron,double flange 90 deg. 400 mm 026 686-8480 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,ductile iron, we or tee, 150mm diameter (4") socket 026 686-8500 Fittings,ductile iron, wye or tee, 150mm diameter (6") socket 026 700 WATER WELLS 026 704 WELLS: 026 704-1900 Water pump,for wells to 30 m deep, 100 mm submersible, 3 HP (cast iron) EA 3026 704-1950 Water pump, for wells to 30 m deep, 100 mm submersible, with motor complete with accessories, 3 HP (stainless steel)				330.0
026 686-8220 Fittings,ductile iron,double flange 90 deg. 100 mm 026 686-8240 Fittings,ductile iron,double flange 90 deg. 150 mm 026 686-8280 Fittings,ductile iron,double flange 90 deg. 200 mm 026 686-8470 Fittings,ductile iron,double flange 90 deg. 400 mm 026 686-8480 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,ductile iron, double flange 90 deg. 300 mm 026 686-8500 Fittings,ductile iron, wye or tee, 150mm diameter (4") socket 026 686-8500 Fittings,ductile iron, wye or tee, 150mm diameter (6") socket 026 700 WATER WELLS 026 704 WELLS: 026 704-1900 Water pump,for wells to 30 m deep, 100 mm submersible, 3 HP (cast iron) EA 3026 704-1950 Water pump, for wells to 30 m deep, 100 mm submersible, with motor complete with accessories, 3 HP (stainless steel)				700.0
026 686-8240 Fittings,ductile iron,double flange 90 deg. 150 mm 026 686-8280 Fittings,ductile iron,double flange 90 deg. 200 mm 026 686-8470 Fittings,ductile iron,double flange 90 deg. 400 mm 026 686-8480 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,ductile iron, wye or tee, 150mm diameter (4") socket 026 686-8500 Fittings,ductile iron, wye or tee, 150mm diameter (6") socket 026 700 WATER WELLS 026 704 WELLS: 026 704-1900 Water pump,for wells to 30 m deep, 100 mm submersible, 3 HP (cast iron) EA 026 704-1950 Water pump, for wells to 30 m deep, 100 mm submersible, with motor complete with accessories, 3 HP (stainless steel)		20 AN 1 20 AN 1 20 AN 1 20 B S S S S S S S S S S S S S S S S S S		110.0
026 686-8280 Fittings,ductile iron,double flange 90 deg. 200 mm 026 686-8470 Fittings,ductile iron,double flange 90 deg. 400 mm 026 686-8480 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,ductile iron, wye or tee, 150mm diameter (4") socket 026 686-8500 Fittings,ductile iron, wye or tee, 150mm diameter (6") socket 026 700 WATER WELLS 026 704 WELLS: 026 704-1900 Water pump,for wells to 30 m deep, 100 mm submersible, 3 HP (cast iron) EA 026 704-1950 Water pump, for wells to 30 m deep, 100 mm submersible, with motor complete with accessories, 3 HP (stainless steel)				185.0
026 686-8470 Fittings,ductile iron,double flange 90 deg. 400 mm 026 686-8480 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,ductile iron, wye or tee, 150mm diameter (4") socket 026 686-8500 Fittings,ductile iron, wye or tee, 150mm diameter (6") socket 026 700 WATER WELLS 026 704 WELLS: 026 704-1900 Water pump,for wells to 30 m deep, 100 mm submersible, 3 HP (cast iron) EA 026 704-1950 Water pump, for wells to 30 m deep, 100 mm submersible, with motor complete with accessories, 3 HP (stainless steel)				280.0
026 686-8480 Fittings,ductile iron,double flange 90 deg. 300 mm 026 686-8490 Fittings,ductile iron, wye or tee, 150mm diameter (4") socket 026 686-8500 Fittings,ductile iron, wye or tee, 150mm diameter (6") socket 026 700 WATER WELLS 026 704 WELLS: 026 704-1900 Water pump,for wells to 30 m deep, 100 mm submersible, 3 HP (cast iron) EA 026 704-1950 Water pump, for wells to 30 m deep, 100 mm submersible, with motor complete with accessories, 3 HP (stainless steel)	Vice Control of the Control of the Control			1,390.0
026 686-8490 Fittings,ductile iron, wye or tee, 150mm diameter (4") socket 026 686-8500 Fittings,ductile iron, wye or tee, 150mm diameter (6") socket 026 700 WATER WELLS 026 704 WELLS: 026 704-1900 Water pump,for wells to 30 m deep, 100 mm submersible, 3 HP (cast iron) Water pump, for wells to 30 m deep, 100 mm submersible, with motor complete with accessories, 3 HP (stainless steel)			1111	695.0
026 686-8500 Fittings,ductile iron, wye or tee, 150mm diameter (6") socket 026 700 WATER WELLS 026 704 WELLS: 026 704-1900 Water pump,for wells to 30 m deep, 100 mm submersible, 3 HP (cast iron) Water pump, for wells to 30 m deep, 100 mm submersible, with motor complete with accessories, 3 HP (stainless steel)				293.0
026 700 WATER WELLS 026 704 WELLS: 026 704-1900 Water pump, for wells to 30 m deep, 100 mm submersible, 3 HP (cast iron) EA 026 704-1950 Water pump, for wells to 30 m deep, 100 mm submersible, with motor complete with accessories, 3 HP (stainless steel) EA				370.0
026 704 WELLS: 026 704-1900 Water pump, for wells to 30 m deep, 100 mm submersible, 3 HP (cast iron) EA 026 704-1950 Water pump, for wells to 30 m deep, 100 mm submersible, with motor complete with accessories, 3 HP (stainless steel)			1	The second second second
026 704-1900 Water pump, for wells to 30 m deep, 100 mm submersible, 3 HP (cast iron) EA Water pump, for wells to 30 m deep, 100 mm submersible, with motor complete with accessories, 3 HP (stainless steel)	The second secon			
026 704-1950 Water pump, for wells to 30 m deep, 100 mm submersible, with motor complete with accessories, 3 HP (stainless steel)			EA	3,000.00
with motor complete with accessories, 3 HP (stainless steel)	000 704 1050	Water pump, for wells to 30 m deep, 100 mm submersible,		5,800.00
zaz	PER ANTENIA DE LA COMPANSO DEL COMPANSO DEL COMPANSO DE LA COMPANSO DEL COMPANSO DEL COMPANSO DE LA COMPANSO DEL COMPANSO DEL COMPANSO DEL COMPANSO DE LA COMPANSO DEL COMPANSO DE LA COMP			11,000.00
026 704-3050 Well, water pump submersible, 150 mm, 25 HP, 210 GPM, (stainless steel), with motor and complete with accessories	026 704-3050	Well, water pump submersible, 150 mm, 25 HP, 210 GPM, (stainless steel), with	1	17,000.00

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CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT
026 804	GAS STATION PRODUCT LINE		
026 804-0020	Primary containment pipe, fiberglass-reinforced, plastic pipe 4.5 m lengths, 80 mm diameter	LM	126.30
026 804-0060	Primary containment pipe,fiberglass-reinforced,plastic pipe 4.5 m lengths, 100 mm diameter	**	140.30
026 804-0130	Gas pipe fittings,elbow,100 mm diameter	EA	17.00
026 804-0220	Gas pipe fittings,tee,100 mm diameter		40.00
	Gas pipe fittings,flanged bell ends,100 mm diameter		38.00
	Gas pipe fittings,sleeve couplings,150 mm diameter	P.	50.00
026 804-0310	Gas pipe fittings, 80 mm dia. coupling with 2 rubber rings		35.00
026 804-0340	Gas pipe fittings, reducer,150 mm x 100 mm diameter	+	80.00
026 850	GAS DISTRIBUTION SYSTEM		
026 852	GAS SERVICE & DISTRIBUTION:		
026 852-0100	Gas piping,polyethylene, 232 kPa (16 bar),coils, 32 mm diameter, SDR 11	LM	2.04
026 852-0200	Gas piping,polyethylene, 232 kPa (16 bar),coils, 75 mm diameter, SDR 11		10.95
026 852-0550	Gas piping, black steel,schedule 40, seamless, 25mm diameter		16.67
026 852-0600	Gas piping,black steel,schedule 40,seamless, 50 mm diameter		31.67
026 852-0700	Gas piping,black steel,schedule 40,seamless, 100 mm diameter		80.00
026 852-8002	Gas piping,black steel,schedule 40,seamless, 150 mm diameter	*	136.67
026 852-8008	Gas pipe fittings,elbow,weld joint,standard weight 100 mm diameter	EA	17.00
	Gas pipe fittings,elbow,weld joint,extra heavy weight 100 mm diameter	EA	72.00
026 858	PIPING, VALVES, GAS DISTRIBUTION		
026 858-0140	Gas piping valves,gas stops,with or without checks 32 mm size	EA	381.00
026 858-0200	Gas piping valves,gas stops,with or without checks 50 mm size (with handwheel)		763 00
	Gas piping valves, pressure regulator, iron and bronze 50 mm diameter		150.00
026 858-0740	Gas piping valves, pressure regulator, iron and bronze 100 mm diameter	+	1,000.00
027	SEWERAGE & DRAINAGE		
	SUBDRAINAGE SYSTEMS	72	
027 108	PIPING, SUBDRAINAGE, CONCRETE:		
027 108-3020	Subdrainage piping, perforated reinforced concrete pipe, 300 mm diameter	LM	88.00
027 108-3100	Subdrainage piping, perforated reinforced concrete pipe, 470 mm diameter	LM	148.00
027 110	PIPING, SUBDRAINAGE, CORRUGATED METAL:		
02/ 110-20201	Subdrainage piping, corrugated aluminum, perforated, 150 mm diameter, 18 gauge	LM	56.10
	Subdrainage piping,corrugated aluminum, perforated, 300 mm diameter, 16 gauge		125.00
021 110-22401			265.00
027 110-2240	Subdrainage piping, cast Iron, perforated,150 mm diameter		365.00
027 110-2240	Subdrainage piping, cast Iron, perforated,150 mm diameter Subdrainage piping.corrugated steel, perforated,300 mm diameter, 16 gauge		110.00
027 110-4000 027 110-4050			
027 110-4000 027 110-4050 027 110-4100	Subdrainage piping,corrugated steel, perforated,300 mm diameter, 16 gauge		110.00
027 110-4000 027 110-4050 027 110-4100 027 110-4110	Subdrainage piping, corrugated steel, perforated,300 mm diameter, 16 gauge Subdrainage piping, PVC, Class 5, perforated 160 mm diameter		110.00
027 110-4000 027 110-4050 027 110-4100 027 110-4110 027 112	Subdrainage piping, corrugated steel, perforated,300 mm diameter, 16 gauge Subdrainage piping, PVC, Class 5, perforated 160 mm diameter Subdrainage piping, PVC, Class 5, perforated 300 mm diameter	LM	110.00

CSI			
CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT
027 150	SEWAGE SYSTEMS	1	
027 152	CATCH BASINS OR MANHOLES:		
027 152-1600	Manhole frames & covers, C.I., 600 mm square, 227 kg	EA	660.0
	Manhole frames & covers, C.I., light traffic, 470 mm, diameter, 47 kg		415.0
	Manhole frames & covers, C.I., heavy traffic, 600 mm, diameter, 181 kg		615.0
	Manhole frames & covers, C.I., water tight, 600 mm, diameter, 160 kg	1	530.0
027 162	PIPING, DRAINAGE & SEWAGE, CONCRETE:		
	Sewer drainage, concrete pipe, non-reinforced, 300 mm diameter	LM	81.0
	Sewer drainage, concrete pipe, non-reinforced, 600 mm diameter	1	160.0
cardina have hires	Concrete reinforced pipe, size 300 mm diameter, with gaskets	++	82.00
estatement automobile - or i decer	Concrete reinforced pipe, size 400 mm diameter, with gaskets	+	87.00
	Concrete reinforced pipe, size 500 mm diameter, with gaskets		145.00
Haranay tanàna tanàna	Concrete reinforced pipe, size 600 mm diameter, with gaskets		168.00
	Concrete reinforced pipe, size 700 mm diameter, with gaskets	+	268.80
	Concrete reinforced pipe, size 800 mm diameter, with gaskets	+	285.00
	Concrete reinforced pipe, size 900 mm diameter, with gaskets	++	345.00
	Concrete reinforced pipe, size 1000 mm diameter, with gaskets		445.00
CARLESTON - WITHER CONTROL	Concrete reinforced pipe, size 1100 mm diameter, with gaskets	LM	640.00
	Concrete reinforced pipe, size 1200 mm diameter, with gaskets	1	575.00
Secretario de la companya della companya della companya de la companya della comp	Concrete reinforced pipe, size 1300 mm diameter, with gaskets		863.00
West and the property of the last	Concrete reinforced pipe, size 1400 mm diameter, with gaskets	11	767.00
027 164	PIPING, STORM DRAINAGE, CORRUGATED METAL:		
027 164-2040	Sewer / drainage pining, corrugated metal, galvanized or aluminum, 6 mm	LM	76.53
027 164-2140	Sewer / drainage piping;corrugated metal, galvanized or aluminum, 6 mm lengths, 600 mm diameter, 14 ga.	LM	265.85
027 165	PIPING, STORM DRAINAGE, FIBERGLASS		
027 165-0100	Sewer/drainage piping, fiberglass reinforced polyester resin, 3700 mm diameter	LM	11,596.00
027 165-0200	Sewer/drainage piping, fiberglass reinforced polyester resin, 3000 mm diameter	LM	8,615.00
027 165-0300	Sewer/drainage piping, fiberglass reinforced polyester resin, 2000 mm diameter	LM	3,358.00
27 166	PIPING, DRAINAGE & SEWAGE, PLASTIC:		
027 166-1000	Sewer piping, plastic reinforced, general strength 32 mm diameter (PVC CLASS 3)	LM	1.63
027 166-1010	Sewer piping,plastic reinforced, general strength 40 mm diameter(PVC CLASS 3)	8	2.17
027 166-1020	Sewer piping,plastic reinforced, general strength 50 mm diameter(PVC CLASS 3)		2.61
027 166-1040	Sewer piping, plastic reinforced, general strength 63 mm diameter(PVC CLASS 3)		3.51
027 166-5000	Sewer piping, plastic reinforced, high strength 160 mm diameter (PVC CLASS 5)	Į.	47.54
027 166-9100	Plastic piping fittings; elbow 32 mm diameter (PVC)	EA	2.65
			9.75
	Plastic piping fittings; elbow 63 mm diameter (PVC)		9.73
027 166-9140 027 166-9610	Plastic piping fittings; elbow 63 mm diameter (PVC) Plastic piping fittings; Wyes and tees; 32 mm diameter (PVC) Plastic piping fittings; Wyes and tees; 63 mm diameter (PVC)		3.25

CSI	ITEM DESCRIPTION	UNIT	COST PER UNIT
CODE	TIEM DESCRIPTION	ONT	COST PER UNIT
027 168-2000	Sewer /Drainage piping,PVC, class 3, 110 mm diam.	LM	9.46
027 168-2040	Sewer /Drainage piping,PVC, class 3, 160 mm diam.		19.84
027 168-2080	Sewer /Drainage piping,PVC, class 3, 225 mm diam.		40.00
027 168-2160	Sewer /Drainage piping,PVC, class 3, 315 mm diam.	▼	76.32
027 168-3080	PVC piping fittings, bend 87 1/2° 160 mm diameter	EA	29.60
027 168-3160	PVC piping fittings, branch 87 1/2°, 160 x 160 mm		60.75
027 168-3240	PVC piping fittings, branch 47o, 160 x 160 mm		42.60
027 168-3250	PVC fittings, bends or elbow 150 mm diameter		19.15
027 168-3260	PVC fittings, tee 150 mm diameter	+	64.25
027 168-3270	PVC fittings, "wye" 150 mm diameter	EA	42.60
027 172	PIPING, DRAINAGE & SEWAGE, VITRIFIED CLAY C70	0	
027 172-5040	Sewer/drainage piping, vitrified clay, extra strength, compression joints, 200 mm diameter x 1.5 m long	LM	105.60
027 172-5080	Sewer/drainage piping,vitrified clay, extra strength, compression joints, 300 mm diameter x 1.8 m long		269.50
027 172-5140	Sewer/drainage piping,vitrified clay, extra strength, compression joints, 600 mm diameter x 2.1 m long	1	1,018.60
	Vitrified clay fittings, bend, plain joint, 200 mm diameter, 90 deg	EA	250.80
	Vitrified clay fittings,-wye & tee, plain joint, 100 mm diameter	EA	82.50
South Market State of the	Vitrified clay fittings, wye & tee, plain joint, 200 mm diameter	EA EA	264.00
027 174	SEWAGE PUMPING STATIONS:		T 1000000000000000000000000000000000000
	Sewage pumping station, prefabricated steel 170 GPM	EA	118,193.00
	Sewage pumping station, prefabricated steel 850 GPM	EA	217,770.00
027 176	SEWAGE TREATMENT:		T 200 000 50
027 176-0300	Sewage treatment, steel package, blown air aeration plant, 57 CUM/day	EA	285,232.50
027 176-0600	Sewage treatment, steel package, blown air aeration plant, 378 CUM/day	EA	600,000.00
027 350	WASTE WATER SYSTEM		
027 354	WASTEWATER TREATMENT SYSTEM:		
027 354-0050	Wastewater treatment system, fiberglass, 4 CUM / capacity	EA	36,697.50
027 354-0100	Wastewater treatment system, fiberglass, 5.5 CUM / capacity	EA	44,971.50
027 400	SEPTIC SYSTEMS		
027 404	SEPTIC TANKS:		
027 404-0200	Septic tanks, precast concrete 20 CUM	EA	16,758.00
027 404-0600	Septic tank, high density polyethylene, 4 cum	EA	12,600.00
027 404-0700	Septic tank,high density polyethylene, 5.5 cum	EA	16,800.00
028	SITE IMPROVEMENTS	#	Account to the second
028 100	IRRIGATION SYSTEMS		
028 104	SPRINKLER IRRIGATION SYSTEM:		
	Sprinkler, pressure compensating bubbler, upto 2 GPM	EA	7.00
	Sprinkler, part/full circle pop-up impact sprinkler		75.00
	Sprinkler, 4" part/full circle including nozzle		10.00
	Sprinkler, 1" electric valve, 24 VAC brass		500.00
	Sprinkler, 1 1/4" Electric valve, 24 VAC brass		950 00
000 101 0000	Sprinkler, 1 1/2" Electric valve, 24 VAC brass	2E S	1,100.00

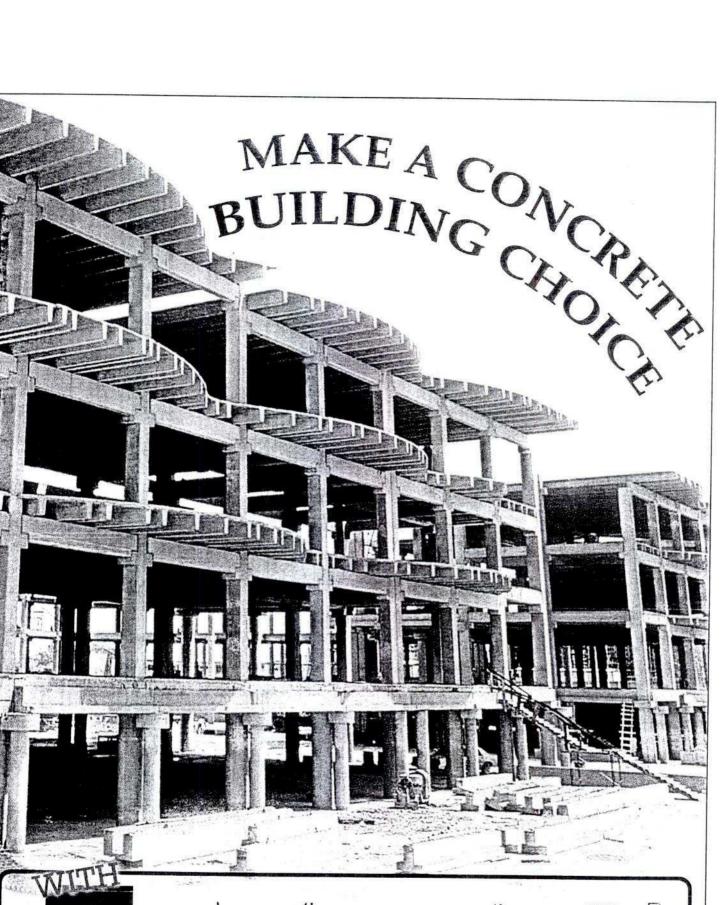
CSI	10 22 22 22 22 22 22 22 22 22 22 22 22 22		
CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT
028 104-2070	Sprinkler, 1" Electric remote control scrubber valve		400.00
	Sprinkler, 1 1/2" Electric remote control scrubber valve		600.00
	Sprinkler, 2" Electric remote control scrubber valve		700.00
The second secon	Sprinkler, 1" Electric valve, 24 VAC		130.00
028 104-2110	Sprinkler, 1 1/2" Electric valve, 24 VAC		200.00
028 104-2120	Sprinkler, 2" Electric valve, 24 VAC with filter		310.00
	Sprinkler, valve with purple locking rubber cover (non potable uses)		250.00
	Sprinkler, valve key		120.00
	Sprinkler, automatic moisture sensor, solid state with stainless steel probes		600.00
028 104-2160	Sprinkler system, 12 stations, four program controller, 117 VAC, 60 Hz		1,050.00
028 104-2170	Sprinkler system, 16 stations, four program controller, 117 VAC, 60 Hz		1,500.00
028 104-2180	Sprinkler system, 24 stations, four program controller, 117 VAC, 60 Hz		5,200.00
Date and the contract of the contract of	Sprinkler heads, pop-up spray, head & nozzle, heavy duty brass		50.00
028 104-3000	Sprinkler heads, riser mounted spray, low/medium volume, plastic / brass		4.00
028 104-4000	Sprinkler heads, pop-up impact sprinkler, body & case, plastic low/medium volume		42.00
028 104-5000	Sprinkler heads, quick coupling valve and key, brass, thread type	*	97.00
028 104-5400	volume	EA	30.00
028 104-8000	Sprinkler heads, riser mounted impact sprinkler, body, part or full circle, plastic, low/medium volume		42.00
028 104-9000	Sprinkler system control panel 6 zone		310.00
028 104-9200	Sprinkler system control panel 24 zone	+	6,825.00
028 200	FOUNTAINS		
028 204	FOUNTAINS:		
028 204-0300	Fountain, pool & light not included, 0.6 m diameter spray ring	EA	1,207.00
028 204-0400	Fountain, pool & light not included, 1.2 m diameter spray ring	EA	2,467.50
028 300	FENCES & GATES		
028 308	FENCE, CHAIN LINK INDUSTRIAL:		
028 308-0200	Fence, chain link industrial, 1.8 m high, 9 ga. wire, galvanized steel (50 mm mesh)	LM	58.15
028 308-0300			58.15
028 308-0800	Fence, chain link industrial, 1.8 m high no barbed wire, 50 mm posts @ 3 m O.C., 40 mm top rail, braces, posts and 9 to 6 ga. wire, galvanized steel or aluminum steel		63.9
028 308-0900	Fence, chain link industrial, 1.8 m high, 6 ga. wire, aluminized steel		
028 308-0950	Barbed wire 3 strands	1 +	1.9
028 308-1000	Fence post 50 mm galvanized steel, 3000 mm long	EA	202.50
	Fence post 50 mm aluminized steel	•	139.00
028 308-1100	Fence, corner post, 75 mm diam., galvanized steel, 3000 mm long		132.40
	Fence galvanized or aluminum braces		42.0
	Gate for 1.8 m high fence, 40 mm frame, 900 mm wide, galvanized steel		916.6
	Gate for 1.8 m high fence, 40 mm frame, 900 mm wide, PVC coated	+	2,200.00
028 308-1500			
028 308-1500	Fence chainlink industrial 1.5 mm high noluding posts @ 3 m. o.c. 40 mm top	LM	58.1

CSI	ITEM DECODIDATION	115117	0007 050 100
CODE	ITEM DESCRIPTION	UNIT	COST PER UNI
028 308-2500	Fence gate, 1.2 m wide, 1.5 m high, 50 mm frame, aluminized steel		
028 308-2700	Fence gate motor operator only, no wiring, for swinging gate 4.5 m wide		6,750.0
028 308-2800	Fence gate motor operator only, no wiring for swinging gate 9 m wide		13,500.0
028 308-2900	Fence swinging gate, 3 m high, 14m wide motor operated, no wiring		21,000.0
028 308-5010	Fence, double swing gates, including posts & hardware 1.5 m high, 3.6 m opening,galvanized steel		2,125.0
028 308-5020	Fence, double swing gates, including posts & hardware 1.5 m high, 6 m opening.galvanized steel		3,541.0
028 308-5060	Fence, double swing gates, including pots & hardware 1.8 m high, 3.6 m opening		2,550.0
028 308-5120	Fence, double swing gates, including posts & hardware 3.6 m high, 3.6 m opening, galvanized steel		5,100.0
028 312	FENCE, CHAIN LINK RESIDENTIAL:		
	Fence chain link residential,steel,vinyl covered, 9 ga wire	SQM	54.1
	Fence gate, vinyl covered steel, 1.2 m wide, 1.8 m high, 35 mm frame	EA	3,675.0
	Fence aluminized steel,tennis court, 9 ga. wire,vinyl covered	SQM	15.0
028 320	FENCE, MISC. METAL:		
028 320-0300	Fence, chicken wire, galvanized steel, 12 ga., 50 mm x 100 mm, mesh	SQM	13.0
028 324	FENCE, WOOD:		
028 324-1200	Fencewood, stockade, cedar, treated wood rails, 1.8 mm high	LM	72.0
028 324-1250	Fencewood, gate,1m wide, 1.8 m high	LM	165.0
028 400	WALK/ROAD/PARKING APPURTENANTS		
028 404	GUIDE RAIL:		
028 404-1500	Guiderail, precast concrete posts, individual, 2 m triangular or square	EA	331.0
028 408	PARKING BARRIERS:		2
028 408-1000	Wheel stops,precast concrete,including dowels,150 mm x 250 mm x 1.8 m long	EA	120.0
028 408-1200	Wheel stops,thermoplastic 150mm x 250mm x 1.8m long	EA	172.0
028 412	SIGNS:		
028 412-0010	Guide and directional signs, 600 mm x 600 mm,2mm aluminum reflectorized	EA	750.0
	Highway road signs, aluminum, over 2 SQM, reflectorized	EA	4,400.0
	Highway,suspended over road, 7.4 m2 min. reflectorized	SQM	293,000.0
	STEPS:		
	Bluestone steps treads, 300 mm x 50 mm or 300 mm x 40 mm	LM	180.00
	TRAFFIC SIGNALS:		
	Traffic signals, pedestrian intersection, 3 lights set,no post	TOTAL	1,349.00
S. 1000 C. 100	Traffic signal flashing head light	EA	875.00
	Traffic controller for 16 traffic lights at any intersection	EA	33,520.00
SCHOOLSEN TO THE	PALYFIELD EQUIPMENT		
	BACKSTOPS:		
	Backstop for basketball, steel and single pole	SET	4,290.00
	Handball goals & Nets	SET	1,820.00
Marian in the Marian and the	Volley Ball Post and Net	SET	515.00
	GOAL POSTS:	E	
028 608-0100	Goal posts steel, soccer, regulation	PAIR	4,860.00

CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT
CODE			
028 612-0400	Playground Equipment, Horizontal monkey ladder, 4.3 m long	EA	6,693.7
028 612-0590	Playground Equipment, Parallel bars, 3 m long		1,906.0
028 612-1900	Playground Equipment, slides, stainless steel bed, 3.6 m long, 1.8 m high		18,375.0
028 612-2000	Playground Equipment, slides, stainless steel bed, 6 m long, 3 m high		3,163.0
028 612-2200	Playground Equipment,swings, 2.4 m high,plain seats, 4 seats		9,518.0
028 612-2500	Playground Equipment,swings,3.6m high,plain seats, 4 seats	•	10,106.0
028 620	PLATFORM PADDLE TENNIS COURT:		
028 620-0100	Platform paddle tennis court . Aluminum slate deckwith aluminum frame	EA	67,984.3
028 700	SITE/STREET FURNISHINGS		ALL MILITARY
028 704	BENCHES:		
028 704-0510	Benches park,steel pedestals with backs, 50 mm x 75 mm wood rails, 2.4 m long	EA	157.50
028 704-0520	Benches park, precast concrete with treated wood, 250 mm x 770 mm x 2 m long		1,365.0
028 704-0610	Benches park, aluminum pedestals, with backs, aluminum slats, 4.6 m long	+	1,420.6
028 708	BLEACHERS:		
028 708-0050	Bleachers outdoor, portable, 3 to 5 tiers, 20 m long	EA	2,100.0
028 708-0500	Bleachers outdoor, permanent grandstands,wood seat,steel frame, 600 mm row, 3 to 5 tiers,average 2" X 8", 1 m Long	EA	225.7
028 716	PLANTERS:		
028 716-0050	Planters conc.,sandblasted,precast,1.2 m dia., 600 mm high, 150 mm thickness	EA	994.3
028 716-0100	Planters conc.,sandblasted, precast,1.5 m dia., 600 mm high, 150 mm thickness		1,249.0
	Planters conc.,sandblasted,fiberglass,circular,1.5 m dia., 600 mm high	++	1,033.2
	Planter /bench fiberglass, 1.8 m square, 900 mm high	*	2,317.3
028 720	TRASH CLOSURE:		7
028 720-0300	Trash closure, wood, 3 m wide, 1.8 m high , 3 m long	EA	2,625.0
028 720-0400	Trash closure, 1.2 m x 1.2 m x 1.2 m bush hammered precast concrete	EA	1,837.5
028 724	TRASH RECEPTACLE:		
028 724-0100	Trash receptacle, fiberglass, 600 mm square, 760 mm high	EA	472.5
029	LANDSCAPING		
029 100	SHRUB/TREE TRANSPLANTING		
029 104	TREE GUYING:	N The	n e
029 104-1300	Tree guying arrowhead anchor, cable, turnbuckles and wrap 150 mm caliper, 150 mm anchors	EA	26.2
029 200	SOIL PREPARATION		
029 204-4100	Fertilizer (NPK)	KG	1.5
029 204-4400		KG	0.4
029 204-6000	CAN ACCOUNT.	CUM	28.0
029 300	LAWNS & GRASSES	1	(4)
029 304	SEEDING:		
029 304-0100	Seeding	KG	25.00

Division	02:SITEWORK		
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT
029 500	TREES/PLANTS/GROUND COVER		
029 504	GROUND COVER:		
029 504-0200	Hay 25 mm deep	SQM	25.00
029 504-0400	Humus peat 25 mm deep		7.00
029 504-0800	Peatmoss 25 mm deep		4.25
029 504-1000	Polyethylene film 0.15 mm		2.50
029 504-1050	Filter fabric weed barrier	*	5.00
029 504-1200	Stone mulch,ceramic chips	CUM	550.00
029 504-1300	Stone mulch,granite chips		570.00
029 504-1400	Stone mulch,marble chips		755.00
029 504-1500	Stone mulch,pea gravel		60.00
029 516	MULCH:	- I	
029 516-0100	Mulch aged barks, 75 mm deep	SQM	27.50
029 524	PLANTING SHRUBS:		
029 524-0200	Shrubs, azalea, 380 mm to 460 mm	EA	51.70
029 524-0300	Shrubs, barberry, 230 mm to 300 mm	EA	66.00
029 528	PLANTING SHRUBS & TREES :		
029 528-0100	Shrubs and trees, evergreen, balled and burlapped, 1.2 m to 1.5 m high	EA	110.00
029 528-0300	Shrubs and trees, evergreen, balled and burlapped, 2.4 to 2.5 m high		275.00
029 528-0600	Shrubs and trees, evergreen, balled and burlapped, upto 0.6 m high		77.00
029 528-0740	Shrubs and trees, evergreen, balled and burlapped, pine white, 1.2 m to 1.5 m		110.00
029 528-0741	Shrubs and trees, evergreen, balled and burlapped, spruce, blue, 0.5 m to 0.6 m	•	77.00
029 536	PLANTING TREES:		# # # # # # # # # # # # # # # # # # #
029 536-0100	Trees decidous, balled & burlapped,ash 50 mm calipper	EA	385.00
029 536-0200	Trees decidous, balled & burlapped, beech, 1.5 m to 1.8 m high		275.00
029 536-0600	Trees decidous, balled & burlapped,dogwood 1.2 m to 1.8 m high		275.00
029 536-1100	Trees decidous, balled & burlapped,honeylocust, 3 m to 3.6m, 38 mm caliper		990.00
029 536-1400	Trees decidous, balled & burlapped,linden, 2.4 m to 3 m, 25 mm caliper	+	990.00
029 536-1600	Trees decidous, balled & burlapped,maple, red, 2.4 m to 3 m, 38 mm caliper	EA	990.00
029 536-2700	Trees decidous, balled & burlapped, tulip, 1.5 m to 2.4 m	EA	275.00

Division 3 Concrete





A Division Of RABIAH & NASSAR CO.

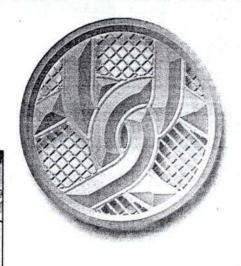


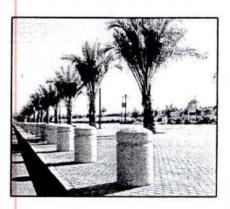
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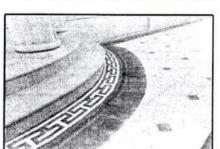
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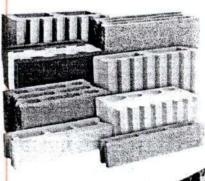
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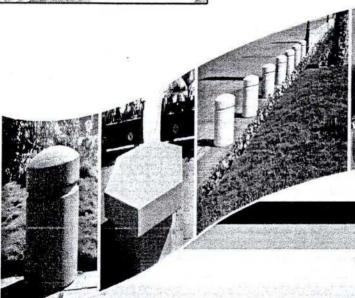
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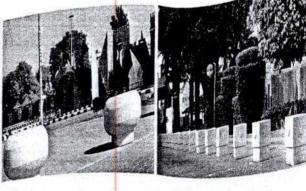


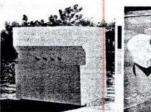


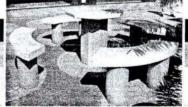












الملكة العربية السعودية ص.ب،١٢٦ الرياض ١١٣٨٣ المعرض الرئيسي هاتف،١٤٥٦٧٧١٤ فاكس،١٤٥٠ ١٤٥٠ المستع هاتف،١٢٦٥٢١١٤ فاكس،١٠٥٤ ١٢٥٥٠ المستع هاتف،١٢٦٥٢١١٤ المعرف الرئيسي هاتف،١٢٥٥١٠٥٤ فاكس،١٢٥٥ المحددية المعرف المدارة الم

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DIVISION	3: CONCRETE		1,7 6,346
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
031	ONCRETE FORMWORK		
STATE OF THE PARTY	TRUCT C.I.P. FORMWORK	NOTE OF BUILDING	A TO SHOULD AND THE TO SHOULD AND
Partier of the Constitution (1986)	CCESSORIES, ANCHOR BOLTS Incl. nut and washer		
	chor bolt,including nut & washer,12 mm Diameter, 240 mm	EA	4.60
	chor bolt, including nut & washer, 12 mm Diameter, 310 mm Long		6.80
	chor bolt, including nut & washer, 70 mm Diameter, 270 mm Long		13.50
	chor bolt, including nut & washer, 24 mm Diameter, 235 mm Long	-	18.00
	NCHOR BOLTS with hex nuts and washers, zinc	nlated	10.00
	ichor bott with hex nut & washer,zinc plated,M8, 8 mm Diameter x 100 mm	praceu	
Lor	ng	EA	2.50
U31 111-16/0 Lor			6.10
Lor			14.50
031 111-2450 An	chor botl with hex nut & washer,zinc plated,M24, 24 mm Diameter x 320 mm	.	21.00
031 112 A	CCESSORIES, CHAMFER STRIPS:	791	
	namfer strip,Polyvinyl chloride,15 mm	LM	0.70
	namfer strip, Polyvinyl chloride, 20 mm		0.90
	emfer strip,Polyvinyl chloride, 25 mm		1.10
	namfer strip,Polyvinyl chloride, 30 mm		7.55
	namfer strip, Steel 20 mm wide		15.50
ACCOUNT TOWNS IN-THE DESIGNATIONS DESIGNATIONS	namfer strip,Steel 25 mm wide	-	12.75
	CCESSORIES,COLUMN FORM:		
	olumn clamps, adjustable to 600 mm x 600 mm	SET	77.00
	olumn clamps,adjustable to 760 mm x 760 mm		84.00
	olumn clamps, adjustable to 1200 mm x 1200 mm		126.50
	olumn clamps, adjustable to 1500 mm x 1500 mm	*	149.50
	CCESSORIES, DOVETAIL ANCHOR SYSTEM:		
	vetail, Anchor slot, filled, 24 ga.	LM	1150
	vetail, Anchor slot, Galvanized, 20 ga.		18.40
	evetail, Brick anchor, galv., 89 mm Long, 16 ga.	100 PCS	92.00
	evetail, Anchor Cavity wall, galv., 127mm Long, 12 ga.		120.00
	vetail,Furring anchors,corr.,galv., 38 mm Long, 12 ga.		74.75
	vetail,Stone anchors, 89 mm Long, galv., 6 mm x 25 mm wide	*	245.00
031 122 A	CCESSORIES,INSERTS:		4
031 122-2100 Ins	serts, Continuous slotted, 76 mm Long 12 ga.	EA	9.50
	serts,Continuous slotted, 300 mm Long 8 ga.		30.75
031 122-2300 Ins	serts, Continuous slotted, 914 mm Long 8 ga.		67,20
031 122-2350 Ins	serts, Continuous slotted, 1.5 m Long 8 ga.	+	111.80
	serts,Threaded cast, 6 mm dia. bolt	LM	1.80
031 122-7350 Ins	serts,Threaded cast, 20 mm dia. bolt	"	12.65
	LAB TEXTURE STAMPING:	* 100	
031 125-0010 Ha		KG	1.20
	urdner- Non Metallic	.11	1,40
	ordner- Solution type	LTR	2.80
031 125-0050 Re		LTR	1.20
031 125-0060 Se	(VIII) 12.000 (V	LTR	17.55
	cessories, Texture Shoes	EA	472.50
	cessories, Grouting Tool, 3/8" x 8"	EA	157.50

PWE	N 3 : CONCRETE		
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
	Accessories, Setting Tool, 10" x 10" Polyurethene Coated Temper		493.5
	Accessories, Texture Rollers, 10" x dia.		504.0
	Accessories, Joint Touch-Up Roller, 3/16"		189.0
	Accessories, Alum. Chisel, 8"		275.0
	Accessories, Edger Groover		120.0
	Accessories, Trowel with adj. tooth bracket, 30" x 5"		656.2
	Accessories, Alum. Bull Floats, 12" x 7-1/4"		656.2
	Accessories, Stainless Steel Edger, Rivet Free, 8"		57.7
031 125-0060	Accessories, Steel Trowel, 14" x 4" x 5-1/2" shank	+	183.7
031 126	ACCESSORIES, SLEEVES AND CHASES:		
031 126-0010	Sleeves & Chases, Plastic type, 230 mm Long, 50 mm dia.	EA	3.4
031 126-0150	Sleeves & Chases, Plastic type, 230 mm Long, 100 mm dia.	"	5.7
031 126-0250	Sleeves & Chases, Plastic type, 230 mm Long, 300 mm dia	EA	15.5
031 128	ACCESSORIES, SNAP TIES, FLAT WASHER:	10	
031 128-0250	Snap ties,flat washer 1.3 ton to 400 mm	100 PCS	205.1
031 128-0650	Snap ties,flat washer 1.3 ton with plastic cone,to 400 mm	100 PCS	189.5
031 128-1000	Snap ties,flat washer 2.2 ton to 200 mm		279.7
031 128-1200	Snap ties,flat washer 2.2 ton to 400 mm		346.8
031 128-1650	Snap ties, flat washer 2.2 ton with plastic cone, to 400 mm	•	354.1
031 130	ACCESSORIES, WALL AND FOUNDATION:		
031 130-2000	Footings,form braces,soild steel,adjustable	EA	84.5
031 130-2050	Spreaders for footer,adjustable	.,	16.9
031 130-3000	Form oil,coverage varies greatly, average	LTR.	1.17
031 130-4000	Nail stakes,19 mm diameter, 450 mm long	EA	7.50
031 130-4250	Nail stakes,19 mm diameter, 900 mm long	.,	12.68
031 132	EXPANSION JOINT		
031 132-0010	Expansion Joint, Keyed cold joint, 24 ga., incl. stakes, 90 mm high	LM	9.20
	Expansion Joint, Keyed cold joint, 24 ga., incl. stakes, 190 mm high		13.9
	Expansion Joint, Poured asphalt, plain, 25 mm x 50 mm		10.8
	Expansion Joint, Neoprene, liquid, cold applied, 25 mm x 50 mm		58.5
A DESCRIPTION OF THE PROPERTY	Expansion Joint, Polyurethane, 1 part, 13 mm x 25 mm		18.15
031 132-1150	Expansion Joint, Rubberized hot applied, fuel resistant, 25 mm x 50 mm		10.6
	Expansion Joint, Premolded, bituminous fiber, 13 mm x 150 mm		1.33
	Expansion Joint, Cork with resin binder, 13 mm x 150 mm		9.80
	Expansion Joint, Neoprene sponge, closed cell, 25 mm x 300 mm	1	49.50
	Expansion Joint, Polyethylene foam, 13 mm x 150 mm		39.60
	Expansion Joint, Polyethylene backer rod, 10 mm to 25 mm diameter		0.70
	Expansion Joint, Polyethylene backer rod, 25 mm dia. (1")		1.10
	Expansion Joint, Polyurethane foam, regular, closed cell, 25 mm x 300 mm	10.	23.98
031 136	FORMS MATERIAL:	4 -924 8 9 11 9	
031 136-0100	Shuttering plywood, 12 mm thick, 1220 mm x 2440 mm	SHEETS	75.00
	Shuttering plywood, 15 mm thick, 1220 mm x 2440 mm	1 2 2	95.00
	Shuttering plywood, 18 mm thick, 1220 mm x 2440 mm		125.00
	Ordinary plywood, 9 mm thick, 1220 mm x 2440 mm		47.00
	Ordinary plywood, 12 mm thick, 1220 mm x 2440 mm		63.00
	Ordinary plywood, 15 mm thick, 1220 mm x 2440 mm	1 - 3	78.00
	Ordinary plywood, 18 mm thick, 1220 mm x 2440 mm	1 1 → 1	94.00
	Lumber size: 50 mm x 100 mm x 4000 mm	CUM	870.00
	Lumber size: 200 mm x 200 mm x 4000 mm	41-41-6	870.00
	Lumber size: 25 mm x 150 mm x 4000 mm		870.00

DIMPO	N 3 : CONCRETE	in the same	er eries i
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
031 136-2000	Steel forms,Beam and Girder,spandrel, 300 mm wide	SQM	80.82
031 136-2010	For steel forms, Spandrel, 457mm wide		70.83
031 136-2020	Steel forms, Spandrel, 600 mm wide	•	72.59
031 142	FORMS IN PLACE, COLUMNS:		
TOTAL AND MAINTANNA	Column form,Round fiberglass, 300 mm dia.	LM	412.50
	Column form, Round fiberglass, 600 mm dia.	LM	725.00
	Column form, Round fiberglass, 760 mm dia.	LM	1,175.00
According to a construction	Column form,Round fiberglass, 910 mm dia.		1,633.33
Section 181 - House Statement	Column form,Round fiber tube, 900 mm dia.		1,600.00
The state of the state of	Column form, Round fiber tube, 1 m dia.		1,625.00
100000110000000000000000000000000000000	Column form,Round fiber tube,1.2 m dia.		1,900.00
	Column form,Round,steel,regular duty, 400 mm dia.		1,137.50
Parallel Control of Control Control Control	Column form, Round Steel, Heavy duty, 600 mm dia.		1,938.00
	Column form,Round Steel,Heavy duty, 910 mm dia.		2,915.00
ENGLISH CONTRACTOR	Column form,Round Steel,Heavy duty,1.2 m dia.		3,846.00
	Column form, Steel framed plywood 300 mm x 300 mm	SQM	4,471.00
	Column form, Steel framed plywood 910 mm x 910 mm		2,788.00
031 150	FORMS IN PLACE, ELEVATED SLABS:		
	Forms, Flat plate to 4.6 m high	SQM	410.55
1984-10 Ct (1980-05) (1991-1991	Forms, Floor slab, 500 mm metal pans		184.00
*2724**********************************	Forms,Floor slab, 760 mm metal pans		184.00
THE RESERVE OF THE STATE OF	Forms,Floor slab, 480 mm metal domes		117.30
	Forms,Floor slab, 760 mm fiberglass domes height 200 mm	100 PCS	172.50
ASSESS CONTRACTOR OF STREET	Forms, Floor slab, 760 mm fiberglass domes height 250 mm	1,001.00	184.00
STATE OF THE STATE	Forms,Floor slab, 760 mm fiberglass domes height 300 mm		189.75
BEFORE OF THE CASE OF THE CASE OF	Forms, Floor slab, 760 mm fiberglass domes height 350 mm		195.50
031 182	FORMS, WALLS:		
	Job built plyform wall forms,to 2.4 m high	SQM	690.00
the state of the s	Polystyrene(expanded) wall forms, 16 kg/m3, 50 mm thickness		17.50
	Polystyrene(expanded) wall forms, 20 kg/m3, 50 mm thickness		17.50
	Pólystyrene(expanded) wall forms, 24 kg/m3, 50 mm thickness	-	17.50
	Liners for forms, 19 mm deep, average	LM	32.50
80 CFW 17 6 CFW 19 1 5 CFW 18 1	Liners for forms, 10 mm x 10 mm deep, average	п	26.00
031 182-7800	Wall form, Modular prefabricated plywood, 2.4 m high	SQM	460.00
031 182-8000	Modular prefabricated plywood, 4.2 m high		460.00
031 182-8060	Modular prefabricated plywood, more than 4.2 m high		460.00
031 182-9000	Wall form, Steel framed plywood, 2.4 m high		1,200.00
031 182-9200	Wall form, Steel framed plywood, 4.2 m high		1,200.00
031 182-9400	Wall form, Steel framed plywood, over 4.2 m to 6 m high	•	1,200.00
031 196	SLIPFORMS:		
031 192-1000	Slipforms Buildings	SQM	13.85
031 198	WATER STOP:		*
	PVC Water Stop,150 x 10 mm,Centerfix	LM	15.00
	PVC Water Stop,230 x 10 mm,Centerfix		16.00
	PVC Water Stop,300 x 10 mm,Centerfix		17.00
	PVC Water Stop, 200 mm,Rearfix		21.50
031 130-1000			
	PVC Water Stop, 250 mm,Rearfix	.	25.00

REINFORCING STEEL:

24

CSI CODE	ITEM DESCRIPTION	LINUT	COST PER
	TIEM DESCRIPTION	UNIT	UNIT (SR)
032 102	ACCESSORIES:		50
032 102-0020	Wheel spacer 25 mm	EA	0.1
032 102-0030	Wheel spacer 50 mm		0.2
032 102-0040	Wheel spacer 75mm	+	0.7
032 102-0060	USS Spacer 20 mm	EA	0.0
032 102-0090	USS Spacer 50 mm		0.1
032 102-0100	Chair Spacer 25 mm		0.1
032 102-0110	Chair Spacer 50mm		0.1
032 102-0120	FD Spacer 75 mm	+	0.5
032 102-0130	Tie wire, 16 ga. annealed steel	MET.TON	2,800.0
032 105	REINFORCING:		
032 105-0100	Reinforcing Steel, Grade 40, 6 mm dia.	MET.TON	2,433.0
032 105-0140	Reinforcing Steel, Grade 40, 16 mm dia, thru 32 mm		2,180.0
032 105-0190	Reinforcing Steel, Grade 60, 16 mm dia, thru 32 mm		2,185.0
032 105-0200	Reinforcing Steel, Grade 60, 36 mm dia.		2,197.0
032 105-0300	Reinforcing Steel, Grade 60, 40 mm dia		2,450.0
032 105-0400	Reinforcement,grade 60,spirals 8 mm dia., 3500 mm wide		2,350.0
032 105-0450	Reinforcement,grade 60,spirals 10 mm dia., 3500mm wide		2,300.0
032 105-0500	Reinforcement,grade 40,spirals 8 mm dia., 3500 mm wide		2,350.0
032 105-0550	Reinforcement, grade 40, spirals 10 mm dia., 3500 mm wide	+	2,258.0
032 200	WELDED WIRE FABRIC:		
032 207	WELDED WIRE FABRIC:		
The second second second second	Welded Wire Fabric Sheets,100 mm x100 mmx (10x10) mm,11.78 Kg/m2	SQM	22.7
	Welded Wire Fabric Sheets,100 mm x 200 mmx (12x8) mm,10.21 Kg/m2		17.6
Carlot Darling Co. Marin Co. Marin Co.	Welded Wire Fabric Sheets,100 mm x200 mmx (10x8) mm, 7.68 Kg/m2		12.8
The state of the s	Welded Wire Fabric Sheets,100 mm x100 mm x (8x8) mm, 7.54 Kg/m2		14.5
032 207-0300	Welded Wire Fabric Sheets, 200 mm x 200 mm x (10x10) mm, 6.30 kg/m2		14.5
	Welded Wire Fabric Sheets,100 mm x 100 mm x (7x7) mm, 5.77 Kg/m2		10.6
Proceedings of the Control of the Co	Welded Wire Fabric Sheets,150 mm x 150 mm x (8x8) mm, 5.18 Kg/m2		11.3
	Welded Wire Fabric Sheets,100 mm x 300 mm x (8x8) mm, 5.30 Kg/m2		11.3
US-citiente automorphismos	Welded Wire Fabric Sheets,100 mm x 100 mm x (6x6) mm, 4.24 Kg/m2		7.8
032 207-0440	Welded Wire Fabric Sheets,100 mm x 400 mm x (8x5) mm, 4.34 Kg/m2		8.4
	Welded Wire Fabric Sheets, 200 mm x 200 mm x(8x8) mm, 4.03 Kg/m2		9.3
	Welded Wire Fabric Sheets,100 mm x 200 mmx (5x7) mm, 3.57 Kg/m2		7.1
032 207-0540	Welded Wire Fabric Sheets,100 mm x 200 mm x (6x5.5) mm, 3.16 Kg/m2		6.2
	Welded Wire Fabric Sheets, 100 mm x 400 mm x (6x5) mm, 2.61 Kg/m2		5.4
032 2070-650	Welded Wire Fabric Sheets,100 mm x 400 mm x (4x4) mm, 1.98 Kg/m2		4.5
032 207-0700	Welded Wire Fabric Sheets, 200 mm x 200 mm x (5x5) mm, 1.57 Kg/m2		3.8
032 207-0800	Welded Wire Fabric Sheets,150 mm x150 mm x (4x4) mm, 1.29 Kg/m2		3.1
032 207-0900	Welded Wire Fabric Sheets,200 mm x 200 mm x (4x4) mm, 1.01 Kg/m2		2.6
033	CAST-IN-PLACE CONCRETE		
033 100	STRUCTURAL CONCRETE:		
033 102	AGGREGATE:		
033 102-0010	Aggregate20 mm (3/4")	CUM	24.0
			24.0
033 102-0050	Aggregate 10 mm (3/8")		2.1.0
		+	25.0

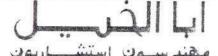
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CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
033 114-0110	Ordinary portland cement, Type 1, (50 kg/bag)	BAG	14.0
033 114-0200	Ordinary portland cement, Type V, loose	TON	290.0
033 114-0220	Ordinary portland cement, Type V,(50 kg.bag)	BAG	15.0
033 114-0700	White portland cement, loose	TON	500.0
033 114-0720	White portland cement, (50 kg/bag)	BAG	26.0
033 114-1000	White portland cement, high early strength, bag (50 kg/bag)	BAG	26.0
033 118	CONCRETE ADMIXTURES & SURFACE TREATMENTS	S:	
033 118-0010	Air entraining Agent	LTR.	3.5
033 118-0020	Bonding agent-Acrylic latex	LTR.	10.1
033 118-0030	Bonding agent-Epoxy Resin	KG	4
033 118-0040	Curing Compound(water base)	LTR.	
033 118-0060	Dust proofing compound	,	3.5
033 118-0070	Epoxy Dust proof coating	KG	2.7:
033 118-0100		KG	1.93
033 118-0110	Release Agent	LTR.	1.11
033 118-0120			17.5
	Water Reducing Admixture		1.7
	Water Proofing integral		1,3
033 118-0150	\$10 cm of the control		1.96
	Set Accelerator		2.6
- W/11-52 - 1 - 0.00 1	Pigment for color concrete	KG	4.5
033 126	READY MIX CONCRETE:		
	Concrete readymix, 200 kg/cm2, cement type I	CUM	155.25
	Concrete readymix, 200 kg/cm2, cement type V		161.74
	Concrete readymix, 250 kg/cm2, cement type 1		159.00
The second secon	Concrete readymix, 250 kg/cm2, cement type V		185.00
033 126-0140	Concrete readymix, 300 kg/cm2, cement type I		190.00
033 126-0150	Concrete readymix, 300 kg/cm2, cement type V		182.47
	Concrete readymix, 350 kg/cm2, cement type I		200.00
	Concrete readymix, 350 kg/cm2, cement type V	+	205.00
033 156	GROUT:		
	Grout,non-shrink, metallic	KG	2.40
	Grout,non-shrink,non- metallic		1.16
033 184	STAIR TREAD INSERTS:		
	Stair tread inserts, cast iron, abrasive, 100 mm wide	LM	57.00
	Stair tread inserts, cast iron, abrasive, 150 mm wide		70.28
	Stair tread inserts, cast iron, abrasive, 300 mm wide		155.00
	Stair tread inserts, cast iron, extruded aluminium safety tread, 100 mm wide		50.77
months country - a second country	Stair tread inserts,cast iron,extruded aluminium safety tread, 230 mm wide	—	120.00
033 450	CONCRETE FINISHING:		The second secon
033 454	FINISHING FLOORS:		
	Concrete,Integral topping and finish, 1:1:2 mix	KG	2.52
	Concrete, Granolithic topping, for colors, 2.44 kg/m2, average		32.00
033 454-1800	Concrete, Floor abrasives, 1.22 kg/m2, aluminium oxide, or silicon carbide	*	15.00
	Concrete,Floor colored hardener,metallic,medium service 3.66 kg/m2	KG	9.00
	Concrete,Floor colored hardener,non-metallic,medium service 3.66 kg/m2		1.84
	Concrete floor Dustproofing, silicate liquids, 2 coats	+	3.16
	Concrete floor, Dustproofing, Epoxy coating, 1 coat, clear	KG	14.75
033 454-4050	Concrete floor, Dustproofing, Epoxy coating, 1 coat, Colors	KG	14.75

DIVISIO	N 3 : CONCRETE		
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
034	PRECAST CONCRETE		
Section 1997	STRUCTURAL PRECAST:		
034 100			
034 104	STRUCTURAL MEMBERS:	Louis	1 000 00
in the second second	Precast concrete beams, average	CUM	1,390.00
The state of the s	Precast concrete column, average	CUM	1,900.00
034 128	JOISTS:		
034 128-0010	Precast Concrete Joists, slab 195 KG/M2 L.L., 150 mm deep for 3.7 m spans	LM	82.00
034 128-0050	Precast Concrete Joists, slab,195 KG/M2 L.L., 200 mm deep for 4.9 m spans	LM	150.00
034 128-0100	Precast Concrete Joists, slab 195 KG/M2 L.L., 250 mm deep for 6.1 m spans	LM	280.00
034 128-0150	Precast Concrete Joists, 195 KG/M2 L.L., 300 mm deep for 7.3 m spans	LM	485.00
034 136	SLABS:	-	
	Precast Slabs hollowcore 150 mm	LM	80.00
	Precast Slabs hollowcore 200 mm		104.00
	Precast Slabs hollowcore 250 mm		130.00
034 500	ARCHITECTURAL PRECAST:		100000000000000000000000000000000000000
034 504	WALL PANELS:	SQM	125.00
A CONTROL THE PROPERTY OF THE PARTY OF THE P	Precast Concrete Panel 100 mm thick	JOGIVI	187.00
	Precast Concrete Panel 150 mm thick	+	250.00
	Precast Concrete Panel 200 mm thick	+	145.00
	Precast Concrete Panel 100 mm thick, exposed aggregate.	+	218.00
	Precast Concrete Panel 150 mm thick, exposed aggregate.	1	290.00
	Precast Concrete Panel 200 mm thick, exposed aggregate.		315.00
	Precast Concrete Panel 200 mm thick, insulated, exposed aggregate.	+ + -	295.00
	Precast Concrete Panel 200 mm thick, insulated, textured.	- I - V	200.00
034 800	PRECAST SPECIALTIES:		
034 802	LINTELS:		
	Lintel,Precast concrete,100 m x 200 mm, to 1500 mm long	LM	95.00
CONTROL OF CHARACTER CONTRACTOR	Lintel, Precast concrete, 200 mm wide, 200 mm height, to 3600 mm long		105.00
034 802-1450	Lintel,Precast concrete,300 mm wide, 200 mm height, to 5800 mm long	+	135.00
035	CEMENTITIOUS DECKS		
035 200	LIGHTWEIGHT CONCRETE:		
035 212	INSULATING		
035 212-0020	Portland cement & foaming agent, roof tile, 1:6 mix	CUM	300.00
035 212-0200	Vermiculite or Perlite ready mix ratio 1:6	.,,	12.00
035 304	WOOD FIBER SYSTEMS		
035 304-0050	Formboard fiber cement, 3 mm thick	SQM	44.64
	Formboard fiber cement, 6 mm thick		130.30
	Formboard fiberglass, 25 mm thick	_ ★	32.00
035 306	WOOD FIBER		CONTRACTOR SALES
035 306-0150	Wood fiber lightweight cement, tounge & groove planks, 65 mm	SQM	35.57
035 306-0150	Wood fiber lightweight cement, tounge & groove planks, polyurethane insulated,	.,	64.84

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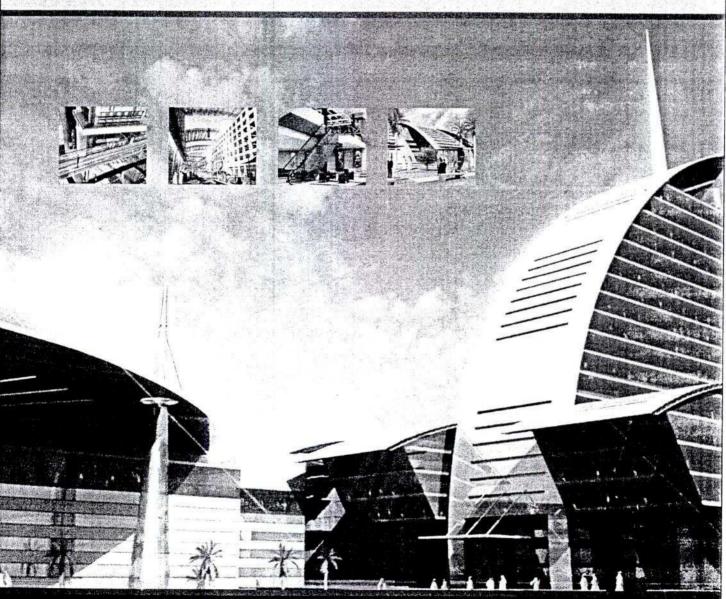
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Division 4 Masonry







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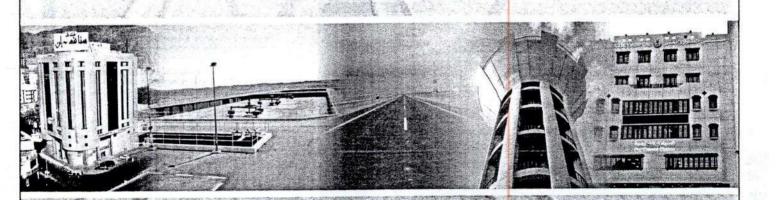
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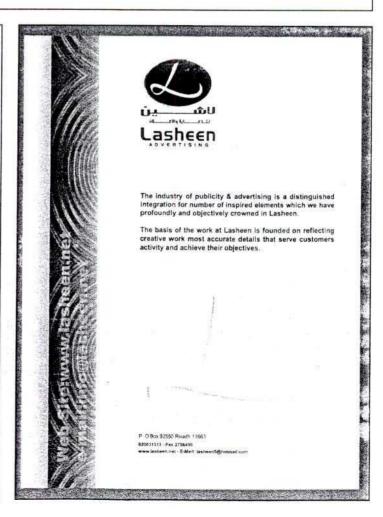


- تنفيذ عقود مقاولات إنشاء المانى وصيانتها
- تنفيذ عقود مقاولات وتمديد شبكات المياه والصرف الصحى
- عقبود مقباولات الاعمبال الكهروميكانيكي
- عقود مقاولات الاعمال الالكترونية وشبكات الاتصال



ي هيئة الرقابة والتحقيق بالنطقة الشرقية

الملكة العربية السعودية - الرياض ١١٣١ ص.ب ٢٢١٤٢٨ 4-77777 - 2-01177 - 11717-1 ي ۱۲۱۲۵۵ ع. ح. المزارات شارعات الندب



图数 1 max 15 may 1 may 10 may	N 4: MASONRY		COST DED
CSI	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
041	MORTAR & MASONRY ACCESSORIE	S	
041 100	MORTAR		
041 008	CEMENT:		
041 008-0010	Gypsum (40 kg/bag)	BAG	12.00
041 008-0100	Portland cement (50 Kg bag)		15.00
041 008-0020	White cement (50 kg/bag)		26.00
041 016	GROUTING:		
041 016-2000	Non shrinking grout for machinery foundation in 25 kg/bag	KG	1.40
041 016-2100	Cementitious non shrinking grout in 25 kg/bag	.,	0.80
041 020	LIME:		
041 020-0010	Lime,mason hydrated 20 kg/bag	BAG	12.00
041 020-0050	Lime,truck loaded lots	TON	800.00
041 020-0200	Lime finish,hydrated 20 kg bag	BAG	12.00
041 024	MORTAR:		
041 024-0100	Mortar with masonry cement, mix type M, 1:1:6 mix	CUM	266.00
041 024-0200	Mortar with masonry cement, mix type N, 1:3 mix		295.00
041 024-2100	Mortar with portland cement and lime, mix type M, 1:1/4:3 mix		388.00
041 024-2200	Mortar with portland cement and lime, mix type N, 1:1:16 mix, 5170 Kpa		313.25
041 024-2800	Mortar for glass block	+	692.80
041 032	SAND:		
041 032-0010	Sand for mortar, screend & washed	CUM	28.00
041 040	WATERPROOFING:		
041 040-0010	Waterproofing admixture	LTR	2.00
041 036	SURFACE BONDING:		
041 036-0020	Surface Bonding Block walls with fiberglass mortar, gray or white color	SQM	15.27
041 500	MASONRY ACCESSORIES		
041 504	ANCHOR BOLTS:		
041 504-0010	Anchor bolts hooked w/nut and washer, 12 mm dia., 180 mm long	EA	3.60
041 504-0030	Anchor bolts hooked w/nut and washer, 12 mm dia., 240 mm long		4.60
041 504-0040	Anchor bolts hooked w/nut and washer, 16 mm dia., 140 mm long	100	5.50
041 504-0050	Anchor bolts hooked w/nut and washer,16 mm dia.,190 mm long		5.90
041 504-0060	Anchor bolts hooked w/nut and washer, 20 mm dia., 200 mm long		12.00
041 504-0070	Anchor bolts hooked w/nut and washer, 20 mm dia., 300 mm long	+	13.50
041 508	CONTROL JOINT:		*
041 508-0010	Control joint PVC, 100 mm and wider wall	LM	26.95
041 508-0100	Control joint PVC, 150 mm wall only		25.8
041 508-0140	Control joint PVC, 200 mm and wider wall		27.89
041 508-0180	Control joint PVC, 300 mm wall		33.00
041 512	JOINT REINFORCING:	1612 15	I I I SULPE
	Joint Reinforcing steel bars, 10 mm bars	KG	1.72
	Joint Reinforcing steel bars,15 mm, & 20 mm bars		1.64
	Joint Reinforcing Wire strips, regular truss, to 200 mm wide, galvanized	LM	2.40
Committee of the control of the cont	Joint Reinforcing Wire strips, regular truss, to 300 mm wide, galvanized	LM	2.70
	Joint Reinforcing, Cavity truss with drip section to 150 mm wide	LM	1.60

CSI			COST PER
CODE	ITEM DESCRIPTION	UNIT	UNIT (SR)
041 512-0450	Joint Reinforcing, Cavity truss with drip section to 300 mm wide	LM	2,1
041 518	WALL PLUGS:		
041 518-0010	Wall Plugs, for nailing to brickwork, 26 ga., galvanized,plain	100 PCS	80.0
041 520	WALL TIES:		
041 520-0010	Wall Ties, to brick veneer, galv., corrugated, 20 mm x 180 mm, 22 ga	EA	5.5
041 520-0020	Wall Ties, Cavity wall, 150 mm long, Z type, galvanized, 4 mm		1.7
041 520-0600	Wall Ties, Cavity wall, 150 mm long, Z type, galvanized, 6 mm		5.0
041 520-0700	Wall Ties, Cavity wall, 200 mm long, Z type, galvanized, 4 mm		2.8
	Wall Ties, Cavity wall, 200 mm long, Z type, galvanized, 6 mm		6.0
	Wall Tiles, Rigid partition anchors, plain, 200 mm long and upto 25 mm x 3 mm		2.4
041 520-1580	Wall Tiles, Rigid partition anchors, plain, 200 mm long and upto 40 mm x 6 mm		5.6
041 520-1650	Wall Tiles, Rigid partition anchors, plain, 200 mm long and upto 50 mm x 3 mm		3.5
041 524	VENT BOX:		
041 524-0010	Vent Box, Extruded aluminum, 100 mm deep, 60 mm x 200 mm	EA	59.4
	Vent Box, Extruded aluminum, 100 mm deep, 127 mm x 420 mm		119.7
	Vent Box, Extruded aluminum, 100 mm deep, 150 mm x 420 mm		125.2
	Vent Box, Extruded aluminum, 100 mm deep, 197 mm x 420 mm		446.7
	Vent box stainless steel for ventilators, 150 mm x 150 mm		254.0
		1	290.4
	Vent box stainless steel for ventilators, 300 mm x 300 mm		297.0
041 524-1150	Vent box stainless steel for ventilators, 300 mm x 150 mm		280.8
042	UNIT MASONRY		
042 100	BRICK MASONRY		
042 116	COPING:		
	Coping for 300 mm wall, aluminum	LM	108.0
	Coping precast conc. 255 mm wide, 100 mm tapers to 90 mm, for 200 mm wall	Livi	108.00
	Coping Marble to 100 mm thick, 230 mm wide		
042 124	FACE BRICK:	▼	187.7
A TOOL NOODE	Clay facing/fire bricks, Standard size 100 mm x 210 mm x 55 mm Solid	1000 PCS	850.00
ORIGINAL VICTORIA CONTROLLA	Clay facing/fire bricks, Standard size 115 mm x 240 mm x71 mm punched	1000100	900.00
multipear viriate out to outpass and	Clay facing/fire bricks, Standard size 200 mm x 200 mm x30 mm		1,557.00
042 124-0500	Clay facing/fire bricks, Standard size 200 mm x 200 mm x 110 mm, decorative, screen.		1,650.00
042 156	CLAY UNIT MASONRY:	V 1	
042 156-0100	Clay unit masonry,hollow, 200 mm x 400 mm, 50 mm thick	1000 PCS	1,175.00
042 156-0200	Clay unit masonry,hollow, 200 mm x 200 mm,100 mm thick		850.00
	Clay unit masonry,hollow,200mm x400mm,100mm thick	10	1,320.00
	Clay unit masonry,hollow, 200 mm x 200 mm,150 mm thick		1,050.00
042 156-0500	Clay unit masonry,hollow,200mm x300mm,150mm thick		1,320.00
Appropriate the second second	Clay unit masonry,hollow, 200 mm x 400 mm,150 mm thick		1,325.00
042 156-0700	Clay unit masonry,hollow,200mm x200mm,200mm thick	+	1,180.00
			14/000000000000000000000000000000000000
042 156-0800	Clay unit masonry, hollow, 200 mm x 300 mm, 200 mm thick	1000 PCS	1,450.00

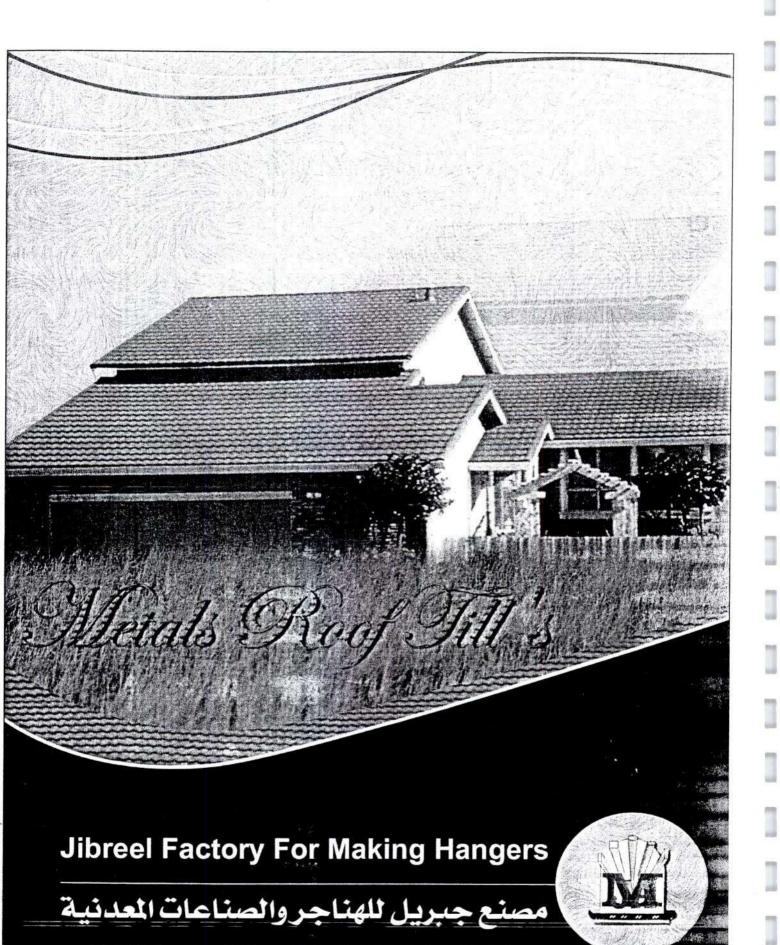
TO A STATE OF THE			COST PER
CODE	ITEM DESCRIPTION	UNIT	UNIT (SR)
042 156-1000	Clay unit masonry, hollow hordi, ceiling blocks, 200mm x400mm, 200mm thick		2,200.00
042 156-1100	Clay unit masonry, hollow hordi, ceiling blocks, 200mm x 300mm, 200mm thick		2,450.00
042 156-1200	Clay unit masonry,hollow hordi, ceiling blocks, 200mm x 400mm, 250mm thick		2,600.00
042 156-1300	Clay unit masonry, hollow hordi, ceiling blocks, 250mm x 300mm, 200mm thick		2,450.00
042 194	WINDOW SILL:		
	Windows Sill Cut stone, 125 mm x 200 mm plain		38.50
The same residence in the second	Windows Sill Marble, 230 mm wide, 25 mm thick	LM	70.40
042 194-0600	Windows Sill precast conc., 230 mm wide, 100 mm tapers to 75 mm, 200 mm wall	LM	60.50
042 200	CONCRETE UNIT MASONRY	1	
042 216	CONCRETE BLOCK		
	Concrete Block, 200 mm x 400 mm, 100mm thick	EA	1.20
	Concrete Block, 200 mm x 400 mm, 150 mm thick	EA	1.40
SKILLSHOOM SAMESAND	Concrete Block,200 mm x 400 mm, 200mm thick		1.60
	Concrete Block, 200 mm x 400 mm, 250mm thick		1.80
	200 1001		2.10
	Lightweight concrete block,hollow hourdi, 200 x 400 x 200 mm		1.87
042 216-1350			2.07
Transferred Contraction	Lightweight concrete block,hollow hourdi, 200 x 400 x 330 mm		2.86
STATE OF THE PARTY	Concrete Block, solid 100 mm x 200 mm x 400 mm		1.70
	Concrete Block, solid 150 mm x 200 mm x 400 mm		2.00
	Concrete Block, solid 200 mm x 200 mm x 400 mm		2.40
042 220	CONCRETE BLOCK, DECORATIVE:		
042 220-1450	Concrete Block, Decorative, Deep grooved, smooth face, 200 mm x 400 mm x	SQM	23.13
042 220-1500	Concrete Block, Decorative, Deep grooved, smooth face, 200 mm x 400 mm x		35.60
042 220-5100	200 mm thick Concrete block, decorative, split rib profile units, 25mm deep ribs, 8 ribs, 200 mm x 400 mm x 100 mm thick		23.13
042 220-5150	Concrete block, decorative, split rib profile units, 25 mm deep ribs, 8 ribs,		25.44
042 220-6100	Concrete block, decorative, split face, 190 mm x 390 mm x 100 mm thick	EA	2.00
	Concrete block, decorative, split face, 190 mm x 390 mm x 200 mm thick		2.40
042 220-6120			2.75
042 224	CONCRETE BLOCK, INTERLOCKING:	-41	
	Concrete block, interlocking, 60 mm thick	SQM	26.00
THE ASSESSMENT OF THE PARTY OF	Concrete block, interlocking, 80 mm thick		28.00
042 232	CONCRETE BLOCK, PARTITIONS:	The last of the	and the second second
	Lightweight concrete block, solid, 600 mm x 250 mm x 100 mm thick	CUM	220.0
	Lightweight concrete block,solid, 600 mm x 250 mm x 200 mm thick	74.	220.00
			220.00
The state of the s	Lightweight concrete block, solid, 600 mm x 250 mm x 300 mm thick INSULATED BLOCK, INSULATION: See also divisi	on 072-10	
042 252			
042 252-0250	size 200 mm x 400 mm, 200 mm thick	1000 PCS	2,222.5
042 252-0300	Insulation, inserts, Polystyrene or styrofoam, plant installed,for clay block units size 200 mm x 400 mm, 250 mm thick		2,470.6

DIVISIO	N 4: MASONRY		
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
042 252-0500	Insulation, inserts, Polystyrene or styrofoam, plant installed, for clay block units size 200 mm x 400 mm, 300 mm thick		2,950.50
042 252-0500	Insulation, inserts, Polystyrene or styrofoam, plant installed, for clay block units size 200 mm x 500 mm, 300 mm thick		2,772.00
042 700	GLASS UNIT MASONRY		
042 704	GLASS BLOCK:	2=-10,	
042 704-0100	Glass Block, 100 mm thick, plain, 150 mm x 150 mm block	SQM	800.00
042 704-0150	Glass Block, 100 mm thick, plain, 200 mm x 200 mm block		425.00
042 704-0200	Glass Block, 100 mm thick, plain, 300 mm x 300 mm block		577.80
042 704-0300	Glass Block, solar reflective, 100 mm thick, 150 mm x 150 mm block		950.00
042 704-0350	Glass Block, solar reflective, 100 mm thick, 200 mm x 200 mm block		525.00
042 704-0500	Glass Block, solar reflective, 100 mm thick, 300 mm x 300 mm block		633.00
042 704-1000	Glass Block, 79 mm thick thinline, plain, 150 mm x 150 mm block		900.00
042 704-1050	Glass Block, 79 mm thick thinline, plain, 200 mm x 200 mm block		475.00
044	STONE		
044 100	ROUGH STONE		
044 104	ROUGH STONE WALL:		
STUDY BY MATERIAL	Rough Stone Wall, dry, Random fieldstone, over 500 mm thick	SQM	110.00
044 200	CUT STONE	SUM	110.00
044 204	STONE CUT TO LENGTH:		
A STATE OF THE STA	Stone,random cut 70mm wide, 1.8 m long, 40 mm thick		
		SQM	65.00
044 204-0200	Stone, random cut 110mm wide, 1.8 m long, 40 mm thick		65,00
	Stone,random cut 150mm wide, 1.8 m long, 40 mm thick		62.00
	Stone,random cut 200mm wide, 1.8 m long, 40 mm thick		62.00
044 204-0300	Stone,sort random cut 200mm wide, 1.8 m long, 40 mm thick		62.00
044 204-0500	Stone for Sills,cut to size, natural cleft, 250 mm wide to 1.8 m long, 40 mm thick		62.00
	Stone for Sills,cut to size natural cleft, 250 mm wide to 1.8 m long, 50 mm thick		58.00
	Stone for Stair treads, natural cleft, 300 mm wide, 1.8 m long, 40 mm thick		70.00
044 204-1050	Stone for Stair treads, natural cleft, 300 mm wide, 1.8 m long, 50 mm thick		82.00
044 204-1100	Stone for Stair treads, 300 mm wide, 1.8 m long, smooth finish, 40 mm thick	•	82.00
044 500	STONE VENEER		
044 508	LIGHTWEIGHT NATURAL STONE:		1
044 508-0100	back,irregular	SQM	57.00
044 550	MARBLE		
044 554	MARBLE:		
044 554-0100	Marble base, polished, 20 mm thick,150 mm high	SQM	215.00
THE STATE OF THE STATE OF THE STATE OF	Marble, Window Sills, 150 mm x 20 mm thick		215.00
	Marble,Cobblestone, Pavin, cut to sizes, Radial square.		330.00
	Marble,Cobblestone, Pavin, cut to sizes, Square.	SQM	255.00
	Marble,Cobblestone, Pavin, cut to sizes, Hexagonal		315.00
	Marble, Cobblestone, Classical Eye Pavin, cut to sizes		240.00
AND THE RESERVE TO TH	Marble, Pebblestone, Classical Pavin, cut to sizes		
The land the second of the sec	Marble, Pebblestone, Square Pavin, cut to sizes		212.00
044 004-3700	ivial bie, repolestone, Square Pavin, cut to sizes		212.00

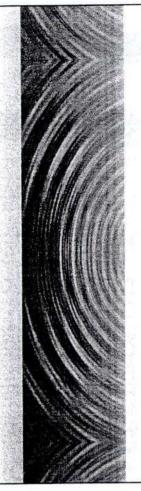
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
044 554-4000	Marble, wall, 300 mm x 800 mm x 40 mm, Travertine, average	—	285.00
044 554-5000	Marble, 300 mm x 300 mm x 10 mm, white cerarra	SQM	115.00
044 554-5100	Marble, 400 mm x 400 mm x 20 mm, white cerarra		98.00
2000 - 100 -	Marble partitions for shower or toilet 20 mm thick		180.00
RESOLUTION OF THE PROPERTY OF THE	Marble for stair, risers, 20 mm thick,150 mm high,cerarra white	LM	18.00
	Marble stair treads, 300 mm wide x 30 mm thick random lengths,cerarra white	LM	68.00
044 554-6000	Marble,botticino,beige color	SQM	135.00
	Marble, pentalique, off white color		275.00
- Administration and the second	Marble,rosa aurora, redish color		210.00
			210.00
044 650 044 651	GRANITE: GRANITE:		
044 651-6000	Granite local,abu rukab 300 x 600mm or 400 x 400 mm or 300 x 300 mm, 20mm	SQM	170.00
044 651-6050	thick Granite local,abu rukab 300 x 600 mm or 400 x 400 mm or 300 x 300 mm, 30 mm thick		218.00
044 651-6100	Granite local,abu rukab cut to 400 x 800 mm, 20 mm thick	-	180.00
	Granite local,abu rukab cut to 400 x 800 mm, 30 mm thick		183.00
044 651-6200	Granite local,homiat cut to 300 x 600 mm, or 400 x 400 mm or 300 x 300 mm; 20 mm thick		185.00
044 651-6250	Granite local,homiat cut to 300 x 600 mm, or 400 x 400 mm or 300 x 300 mm; 30 mm thick		235.00
044 651-6300	Granite local,homiat cut to 400 x 800 mm, 20 mm thick		198.00
044 651-6350	Granite local,homiat cut to 400 x 800 mm, 30 mm thick		240.00
044 651-6500	Granite local,Ruweidah,cut to 300 x 600 mm or 400 x 400 mm or 300 x 300 mm,		210.00
044 651-6600	Granite local, Ruweidah, cut to 300x600mm or 400x400mm or 300x300mm, 30mm thick		230.00
044 651-6700	Granite local,Ruweidah,cut to 400 x 800 mm, 20 mm thick		195.00
	Granite local, Ruweidah, cut to 400 x 800 mm, 30 mm thick		248.00
044 651-7500	Granite local, Saudi rosa 300 x 600 mm, 30 mm thick		490.00
044 651-8000	Granite local, Saudi brown 300 x 600 mm, 40 mm thick		310.00
044 651-8200	Granite local, Saudi bianco 300 x 600 mm, 20 mm thick		420.00
044 651-8250	Granite local, Saudi bianco 400 x 400 mm, 20 mm thick		510.00
044 651-8320	Granite local, Saudi bonito 600 x 600 mm, 20 mm thick		300.00
044 651-8340	Granite local, Saudi bonito 400 x 800 mm, 20 mm thick		350.00
044 651-8360	Granite local, Saudi bonito 300 x 300 mm, 40 mm thick		190.00
044 651-8500	Granite local, Saudi salmon, 300 x 600 mm, 20 mm thick		152.00
044 651-8520	Granite local, Saudi salmon, 300 x 600 mm, 30 mm thick		183.00
044 651-8540	Granite local, Saudi salmon, 300 x 600 mm, 40 mm thick		260.00
044 651-8550	Granite local, Silver Pearl 300 x 600 x 20 mm		142.00
044 651-8555	Granite local, Silver Pearl 400 x 400 x 20 mm	+	142.00
044 651-8560	Granite local, Silver Pearl 400 x 800 x 20 mm	SQM	142.00
044 651-8565	Granite local, Golden Leaf 300 x 600 x 20 mm		165.00
044 651-8570	Granite local, Golden Leaf 400 x 400 x 20 mm		165.00
044 651-8575	Granite local, Golden Leaf 400 x 800 x 20 mm		168.00
044 651-8580	Granite local, Tropic Brown 300 x 600 x 20 mm		150.00
044 651-8585	Granite local, Tropic Brown 400 x 400 x 20 mm		150.00

DIVISIO	N.4:MASONRY		
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
044 651-8590	Granite local, Tropic Brown 400 x 800 x 20 mm		150.00
044 651-8595	Granite local, Violeta 300 x 600 x 20 mm		170.00
044 651-8600	Granite local, Violeta 400 x 400 x 20 mm		170.00
044 651-8605	Granite local, Violeta 400 x 800 x 20 mm		170.00
044 651-8610	Granite local, Emerald Green 300 x 600 x 20 mm		205.00
044 651-8615	Granite local, Emerald Green 400 x 400 x 20 mm		215.00
044 651-8620	Granite local, Emerald Green 400 x 800 x 20 mm		215.00
044 651-8625	Granite local, Emerald Green 300 x 600 x 20 mm		205.00
044 651-8635	Granite local, Emerald Green 400 x 800 x 20 mm		215.00
044 651-8640	Granite local, Blue Granite 300 x 600 x 20 mm		440.00
044 651-8645	Granite local, Blue Granite 400 x 400 x 20 mm		440.00
044 651-8640	Granite local, Blue Granite 400 x 800 x 20 mm	+	435.00
044 700	SANDSTONE		
044 704	SANDSTONE OR BROWNSTONE:		
044 704-4000	Stone veneer,saw cut, 600 x 300 x 30 mm	SQM	52.00
044 704-4200	Stone veneer,saw cut, 600 x 300 x 40 mm		55.00
044 704-4400	Stone, solid and polished 600x300x40 mm		50.00
044 704-4600	Stone, solid, bush hammered 600 x 300 x 40 mm		60.00
044 704-5000	Stone, solid, bush hammered 600 x 300 x60 mm		70.00
044 704-5800	Stone, yellow, saw cut polished 600 x 300 x 40 mm		50.00
044 704-6500	Stone, yellow, bush hammered 600 x 300 x 40 mm		50.00
044 704-7000	Stone, beige, saw cut 600 x 300 x 40 mm		45.00
044 704-7600	Stone, beige, bush hammered, 600 x 300 x 60 mm		72.00
044 704-8000	Stone, beige, smooth, 600 x 300 x 40 mm	.	50.00

Division 5 Metals



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CSI			COST DES
CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
050	METAL MATERIALS, FINISHES & F	ASTENING	S
050 500	METAL FASTENING:		建筑性的形态等的对象的形式的
050 510	CURB EDGING:		Tall
050 510-0010	Curb Edging St. angle 25 mm x 25 mm x 6 m, 1.2 kg/m	LM	3.0
050 510-0100	Curb Edging St. angle 50 mm x 50 mm, 4.47 kg/m		11.5
050 510-0150	Curb Edging St. angle 50 mm x 50 mm x 6 m, 3.77 kg/m		9.6
050 510-0200	Curb Edging St. angle 75 mm x 75 mm, 10 kg/m		25.8
050 510-0250	Curb Edging St. angle 75 mm x 75 mm x 6 m, 6.85 kg/m		17.0
050 510-0300	Curb Edging St. angle 100 mm x 100 mm, 15 kg/m		38.3
050 510-0350	Curb Edging St. angle 100 mm x 100 mm x 6 m, 12.2 kg/m		31.1
050 510-1000	Curb Edging St. angle 150 mm x 90 mm, 18.3 kg/m		67.4
050 510-1020	Curb Edging St. angle 150 mm x 100 mm x 6 m, 19 kg/m		70.3
050 510-1050	Curb Edging Steel channels ,75 mm channel, 6.92 kg/m		20.0
050 510-1100	Curb Edging Steel channels 100 mm channel, 9.36 kg/m		28.0
050 510-1200	Curb Edging Steel channels 150 mm channel, 18.6 kg/m		57.8
050 510-1300	Curb Edging Steel channels 200 mm channel, 24.6 kg/m		76.50
050 510-1400	Curb Edging Steel channels 250 mm channel, 34.6 kg/m		114.20
050 510-1450	Curb Edging Steel channels 250 mm x 12 m channel, 24 kg/m		34.80
050 510-1500	Curb Edging Steel channels 300 mm channel, 38.1 kg/m		251.83
050 510-1600	Curb Edging Steel channels 300 mm x 12 m channel, 31 kg/m	+	125.92
050 520	EXPANSION ANCHORS:		
050 520-0400	Bolt anchor for concrete,brick or stone,expansion shield,zinc, 10 mm dia., 53 mm long	EA	0.75
050 520-0800	Bolt anchor for concrete, brick or stone, expansion shield, zinc, 16 mm dia., 68 mm long		1.50
050 520-1000	Bolt anchor for concrete, brick or stone, expansion shield, zinc, 19 mm dia., 100 mm long		2.75
050 520-1300	Bolt anchor for concrete, brick or stone, expansion shield, zinc, 25 mm dia., 150 mm long		32.00
	Self drilling ,steel,12 mm diam. bolt		6.75
A CHARLES WITH THE RESIDENCE OF THE PARTY OF	Self drilling ,steel, 20 mm diam. bolt		6.75
	Toggle bolt, bright steel, 6 mm dia., 76 mm long		17.60
	Toggle bolt,bright steel,10 mm dia.,76 mm long		2.40
	Toggle bolt,bright steel,13 mm dia.,150 mm long		
	Wedge anchor, Galv. steel,10 mm dia., 40 mm long		0.55
	Wedge anchor, Galv. steel,12 mm dia., 50 mm long		0.80
	Wedge anchor, Galv. steel, 20 mm dia., 80 mm long		1.10
and the description of the control o	LAG SCREWS:		1.10
050 530-0300	Lag screw steel, 16 mm dia., 76 mm long	EA	1.25
CASCACAL CASCACA CASCACA	MACHINE ANCHORS:		1.25
	Anchor bolt w/fiber plug,nut & washer, 16 mm diameter.	EA	73.50
	Anchor bolt w/fiber plug.nut & washer, 22 mm diameter.		90.60
	RIVETS:	**	55.00
050 545-0200	Aluminum rivets & mandrel, 5 mm dia.	100 PCS	13.60
	Copper rivet, steel mandrel, 3 mm dia.	100 PCS	15.00
	Stainless steel rivet steel mandrel, 5 mm dia.	100 PCS	35.20

CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
051	STRUCTURAL METAL FRAMING		
71111111111111111111111111111111111111	BRACING		
051 100	BRACING:		
051 108	Bracing Let-in, "T" shaped, 20 ga. galv. steel, studs	LM	5.40
		311	4.80
	Bracing,16 ga. galv. steel straps		
051 200	STRUCTURAL STEEL:		
051 220	COLUMNS:	LM	1,260.00
			2,348.00
The Court of the C			770.00
	Aluminium, extruded, stock units Square columns 200 mm dia.		2,750.00
	Steel pipe, extra strong, 250 mm dia. x 5.5 mm thick x 6 m		190.7
	Square structural tubing, 150 mm, 6mm thick, 26.8kg/m		381.5
	Square structural tubing, 150 mm, 6.06 mm thick x 26.8kg/m, 6 Mtr. Long		429.0
	Square structural tubing, 250 mm, 10 mm thick x 51kg/m, 12 Mtr. Long		419.6
	Square structural tubing, 200 mm, 12 mm thick, x 58.8kg/m, 12 Mtr. Long		252.1
	Rectangular structural tubing,150 x 100 x 10 mm, 35.3kg/m, 12 Mtr. Long		308.6
	Rectangular structural tubing, 200 x 100 x 10 mm, 51kg/m, 12 Mtr. Long		- 156.4
	Wide flange,A36 steel beam, W 203 x 46.1 kgs/m, 12 Mtr. Long		302.5
	Wide flange,A36 steel beam, W 254 x 89.4 kgs/m, 12 Mtr. Long		363.7
	Wide flange,A36 steel beam, W 254 x 107 kgs/m, 12 Mtr. Long		401.1
THE THE STREET STREET	Wide flange,A36 steel beam, W 305 x 118 kgs, 12 Mtr. Long		465.8
	Wide flange, A36 steel beam, W 305 x 137 kgs, 12 Mtr. Long		601.7
	Wide flange, A36 steel beam, W 356 x 177 kgs, 12 Mtr. Long		71.6
	I-Beam 200 mm x 100 mm, 22.40 kgs, 12 Mtr. Long		98.4
	I-Beam 240 mm x 120 mm, 30.70 kgs, 12 Mtr. Long		135.3
	I-Beam 300 mm x 150 mm, 42.20 kg/Mt, 12 Mtr. Long		157.7
American de la companya del la companya de la compa	I-Beam 330 mm x 160 mm, 49.10 kg/Mt, 12 Mtr. Long		
	I-Beam 310 mm x 300 mm, 97.60 kg/Mt, 12 Mtr. Long		312.2
	I-Beam 360 mm x 170 mm, 57.10 kg/Mt, 12 Mtr. Long		182.6
Director Publication Statistics	I-Bearn 350 mm x 300 mm, 93 kg/Mt, 12 Mtr. Long		297.6
051 220-7530	I-Beam 900 mm x 400 mm, 300 kg/Mt, 12 Mtr. Long	*	960.0
051 230	LIGHTWEIGHT FRAMING:		
and the state of t	For steel studs see division 092-612	111	12.1
	0 Cross bracing rods,19 mm diameter (Plain rod)	LM	143.0
	0 Cross bracing rods, 25 mm diameter (Plain rod)	LM EA	233.0
	0 Steel angle, 120 x 120 x 8 mm, 14.7 kgs/mt, 6 Mtr. Long	EA	290.0
	0 Steel angle, 120 x 120 x 10 mm x 6 m, 18.20 kgs/mt, 6 Mtr. Long		The state of the s
051 232	LINTELS:	KG	48.3
The state of the s	0 Plain steel angles 0 Steel angles, 100 mm x 75 mm, 9.35kg/m, 7 mm thick, 6 m long	EA	34.5
ACKNOWLED TO A SECTION OF THE PLANT			
051 234	PLATES:	MET.TON	3,200.0
	0 Struct.steel plate, 2 m x 6 m x 6 mm to 50 mm thick	1	
051 238	SPACE FRAME:		

CSI	*		CERCLE OF SCHOOL STREET
CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
051 238-0400	Steel 1.5 m modular, 12 m spans, supported on boundary frames, total imposed load 100 kg/m2	SQM	563.5
051 250	STRUCTURAL STEEL MEMBERS:		
051 250-0100	762 x 147 kgs/Mt	MET.TON	3,250.0
051 250-0900	Structural steel members wide flange sizes, span 15m, per SQM	н	3,250.0
051 255	STRUCTURAL STEEL PROJECTS Bolted,unless mentioned otherwise:		
051 255-0131	Prefabricated industrial 1 storey building,including wall panels & roof; steel bearing, & girders 1:12, pitched roof, rectangular shape length to width 3:1 area 6075 SQM; eve height 6.5M, building width 45 M	SQM	170.00
051 255-0132	Prefabricated industrial 1 storey building,including wall panels & roof; steel bearing, & girders 1:12, pitched roof, rectangular shape length to width 5:1 area 6075 SQM; eve height 6.5M, building width 34.8 M		160.00
051 255-0133	Prefabricated industrial building, warehouse rectangular,with inside court, including all wall panels & roof, steel bearing, beam & girder; Building dimensions 150 x 160 m; Inside court dimensions 50 m x 20m, eve height 4.8m, roof pitch 1:12		300.00
)51 275	VIBRATION PADS:	- · ·	
051 275-0700	Neoprene bearing pads, 25 mm thick	SQM	1,183.60
051 275-1000	Neoprene bearing pads,fabric reinforced, 35 Mpa, 25 mm thick		1,183.60
	Felt surfaced vinyl pads, cork and sisal, 25 mm thick	_	1,703.90
051 400	STRUCTURAL ALUMINIUM:		
	ALUMINIUM:		
051 404-0010	Aluminium structural profile, 70 mm x 70 mm section, powder coating finish	LM	110.00
	Aluminium structural profile, 70 mm x 160 mm section, powder coating finish		198.00
051 404-0110	Aluminium structural profile, 70 mm x 240 mm section, powder coating finish	+	275.00
	Aluminium extrusion, powder coating, 6 meter length	TON	16,720.00
	STEEL WIRE ROPE:		
	WIRE ROPE:		
	Wire rope,steel core 12 mm dia.	LM	10.35
	Wire rope,steel core 22 mm dia.		34.50
)52	METAL JOISTS		
52 100	STEEL JOISTS:		
	LIGHTGAUGE JOISTS:		
	ightgauge Joists Punched,double nailable, 300 mm deep,12 ga.	LM	34.43
	OPEN WEB JOISTS:		
	Open web joists, horizontal bridging	MET. TON	4,053.00
53	METAL DECKING		
53 100	STEEL DECK:		
53 104	METAL DECKING:		
C	Metal Decking, steel floor panels, Cellular units galvanized, 50 mm deep, 20-20 gauge	SQM	92.33
9	Metal Decking, steel floor panels, Cellular units galvanized, 50 mm deep, 18-18 gauge	SQM	120.40
	Metal Decking, steel floor panels, open type, galv., 38 mm deep, 22 ga		28 75
	Metal Decking, steel floor panels, open type, galv., 38 mm deep, 16 ga		54.30
	Metal Decking, steel floor panels, open type, galv., 76 mm deep, 16 ga		

001			COST PER
CSI CODE	ITEM DESCRIPTION	UNIT	UNIT (SR)
053 104-3900	Metal Decking, steel floor panels, open type, galv., 114 mm deep, 16 ga		107.20
053 104-4500	Metal Decking, steel floor panels, open type, galv., 190 mm deep, 18 ga		128.60
053 104-4700	Metal Decking, steel floor panels, open type, galv., 190 mm deep, 14 ga		178.90
053 104-5500	Metal Decking, steel floor panels, Non-cellular composite deck, galv., 50 mm deep, 16 ga.		54.75
053 104-6000	Metal Decking, steel floor panels, Non-cellular composite deck, galv., 76 mm deep, 16 ga.	.	60.05
055	METAL FABRICATION	į.	
055 100	METAL STAIRS:		
055 104	STAIRS:		
055 104-0100	Stair Steel,safety nosing,steel stringers,grating tread and pipe railing 1.2 m wide	RISER	294.64
055 104-0400	Stair Steel,safety nosing,steel stringers,Cast iron tread and pipe rail		589.20
055 104-0500	Stair Steel,safety nosing,steel stringers,checkered plate tread,industrial,	J	324.45
055 104-1815	Stair spiral,aluminum,1.5 m diameter	RISER	775.15
055 150	LADDERS:		
055 158	LADDER:	***************************************	
Tables No.	Ladder,steel, suitable for bolting to concrete, withiout cage	LM	267.37
	Ladder,steel, suitable for bolting to concrete, with cage	. "-	546.25
055 200	HANDRAILS & RAILINGS:		
055 202	BUMPER RAILS:		
055 202-0010	Bumper rails for garages, 12 ga.rail,150mm wide,with steel posts 3.8 mm O.C., average	LM	174.80
055 203	RAILING,PIPE:		
	Prefabricated Aluminium handrail, 2 pipes @ 50mm dia.	LM	747.50
055 203-0040	Prefabricated Aluminium handrail, 2 pipes @ 75mm dia.		920.00
055 203-0900	Prefabricated Aluminium wall guard, 1 pipe @ 50 mm		575.00
055 203-0910	Prefabricated Aluminium wall guard, 1 pipe @ 75 mm	•	747.50
055 206	RAILINGS,INDUSTRIAL:		7/4
	Railings,industrial welded, 2 rail,1.1m high, 50 mm pipe, curved	LM	357.00
055 208	RAILINGS,ORNAMENTAL:		11 11. (XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
A. IV. ALEXANDER OF THE SECOND	Railings,Ornamental Aluminium,average	LM	2,761.20
055 208-0400	Railings,Ornamental Hand-forged wrought iron,average		6,810.30
055 300	GRATINGS & FLOOR PLATES:		
055 302	CHECKERED PLATE:		2
	Checkered plate 6 mm to 10 mm, 238 Kg/1220mm x 2440mm	KG	3.20
055 302-0500	Checkered plate platforms, 6 mm plate, no handrails,rectangular		2.03
055 302-0600	Checkered plate platforms, 6 mm plate, no handrails, circular	+	2.34
055 304	FLOOR GRATING, ALUMINIUM:		
055 304-1700	Floor Grating, Aluminium, Heavy duty, all extruded panels, 32 mm deep, 12.1 kg/m2	SQM	2.08
055 304-1900	Floor Grating, Aluminium, Heavy duty, all extruded panels, 57 mm deep, 29.4 kg/m2		428.95
	Floor Grating, close spaced aluminium grating with vinyl tread inserts	8	660.10
055 304-2400	riod Craing, close opaced darminant graing that my		
	Floor Grating, Stainless Steel, close spaced with vinyl inserts.	+	1,121.68

TABLE	N 5: METALS		
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
055 310-0800	Floor Grating Planks stainless steel type 304, 16 ga., 50 mm rib	LM	80.8
055 314	GRATING FRAME:		
055 314-0100	Grating frame Aluminium, for gratings 40 mm deep	EA	253.0
055 370	TRENCH COVER:		
055 370-0020	Trench cover cast iron grating with bar stops and angle frame	LM	62.1
055 370-0150	Trench cover frame only (both sides of trench), 50 mm grating	33	523.2
055 400	CASTINGS		
055 404	CONSTRUCTION CASTINGS:		
055 404-0100	Column bases, cast iron, 400 mm x 400 mm, approx. 30 kg	EA	135.24
055 404-0200	Column bases,cast iron, 810 mm x 810 mm, approx. 115 kg		130.00
055 404-0500	Column bases,cast aluminium 300 mm x 300 mm		195.00
055 500	METAL SPECIALTIES		
055 504	LAMP POSTS:		
055 504-0010	Lamp Posts, 2.1 m high,aluminium	EA	287.50
055 504-0100	Lamp Posts, 2.1 m high,mild steel, plain	п	115.40
055 508	WINDOW GUARDS:		
055 508-0070	Window guard,steel,w/steel angle frame,steel bars 13 mm x 13 mm,spaced,130 mm O.C.,projected type	SQM	195.00
055 508-0500	Window Guards, Woven wire units, 10 mm chan. frame, 1.2 m x 1.8 m	OPENING	364.0
058	EXPANSION CONTROL		
058 100	EXP. COVER ASSEMBLIES:		
058 104	EXPANSION JOINT ASSEMBLIES Custom Units:		
058 104-0200	Floor cover assemblies, 25 mm space, aluminium	LM	65.00
058 104-0300	Floor cover assemblies, 25 mm space, bronze or stainless steel		185.00
058 104-0500	Floor cover assemblies, 50 mm space,aluminium		150.00
058 104-0600	Floor cover assemblies, 50 mm space, bronze or stainless steel		230.00
058 104-0800	Wall and ceiling assemblies, 25 mm space, aluminium		65.00
058 104-1200	Wall and ceiling assemblies, 50 mm space, bronze or stainless steel		210.00
058 104-1400	Floor to wall assemblies, 25 mm space, aluminium		70.00
058 104-1500	Floor to wall assemblies, 25 mm space, bronze or stainless steel		195.00
058 104-1700	Gym floor angle covers, aluminium, 76 mm x 76 mm angle		40.00
058 104-2000	Roof closures, aluminium, 25 mm space, flat roof, low profile		402.50
059 104 2200	Roof closures, Roof to wall, aluminium, 25 mm space, low profile		431.25

Division 6 Woods & Plastics

CSI	¥/		COST PER
CODE	ITEM DESCRIPTION	UNIT	UNIT (SR)
060	FASTNERS & ADHESIVES		
060 500	FASTNERS & ADHESIVES	Martin M. D. St. send Street,	To the CAST Coming Residence Constraint (Inc.)
060 512	TIMBER CONNECTORS:		
060 512-0010	Connector plates, steel, with bolts, straight	EA	49.3
060 512-0100	Connector plates, steel, with bolts, TEE shape.		74.2
060 512-4700	Strap ties,16 ga., 35 mm wide, 305 mm long	-	3,1
060 512-6101	Beam hangers,bolted,,polymer painted, 83 mm wide, 230 mm high, 300 mm long,top flange	100 PCS.	20,683.6
060 512-6110	Beam hangers bolted,polymer painted, 175 mm wide, 230 mm high, 300 mm long,top flange		22,190.0
060 512-6204	Beam & purlin hangers,galvanized,12 ga. for purlin/joists 76 mm x 250 mm		2,409.2
060 512-6216	Beam & purlin hangers,galvanized,12 ga. for purlin/joists 100 mm x 300 mm		2,688.7
060 512-6594	Joist hanger heavy duty galvanized, 12 ga., 50 mm x 150 mm		2,605.9
060 512-6598	Joist hanger heavy duty galvanized, 12 ga., 50 mm x 250 mm	+	2,952.0
061	ROUGH CARPENTRY		
061 100	WOOD FRAMING		an arthur farmy and the
061 101	FRAMING MEMBERS:		
061 101-0100	Wood framing member 25 mm x 25 mm	LM	32.0
	Wood framing member 25 mm x 50 mm		36.5
	Wood framing member 25 mm x 75 mm		40.4
061 101-0250	Wood framing member 25 mm x 100 mm		47.6
061 101-0300	Wood framing member 50 mm x 75 mm		62.2
061 101-0350	Wood framing member 50 mm x 100 mm		70.7
061 101-0400	Wood framing member 50mm x 150mm		99.2
061 101-0450	Wood framing member 50 mm x 200 mm		122.0
061 101-0500	Wood framing member 50 mm x 250 mm		155.2
061 101-0550	Wood framing member 50 mm x 300 mm		93.1
061 101-0600	Wood framing member 50 mm x 350 mm		104.7
061 101-0650	Wood framing member 75 mm x 150 mm		135.7
061 101-0700	Wood framing member 75 mm x 200 mm		161.0
061 101-0750	Wood framing member 75 mm x 250 mm		197.8
061 101-0800	Wood framing member 75mm x 300mm		178.4
061 101-0850	Wood framing member 75 mm x 350 mm		197.0
	Wood framing member 100 mm x 150 mm		147.4
061 101-0950	Wood framing member 100 mm x 200 mm		166.7
	Wood framing member 100 mm x 250 mm		79.3
	Wood framing member 100 mm x 300 mm		223.70
061 101-1150	Wood framing member 100 mm x 350 mm	+	248.4
061 118	FRAMING,COLUMNS:		
061 118-0400	Framing columns 100 mm x 100 mm	CUM	12,201.70
061 118-0420	Framing columns 100 mm x 150 mm		11.714.6
061 118-0440	Framing columns 100 mm x 200 mm		10,081.9
061 118-0450	Framing columns 150 mm x 150 mm	1	10.293 6
	Framing columns 150 mm x 200 mm	CUM	9,854.5
	Framing columns 150 mm x 250 mm	CUM	9,188.50

Salado A			
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
061 138	PARTITIONS: Wood stud with single bottom		
061 138-0400	Partitions, wood stud with bottom plate & double top plate, 50 mm x 100 mm, 3 m high, stud 400 mm O.C.	LM	517.50
061 138-1000	Partitions, wood stud with bottom plate & double top plate, 50 mm x 150 mm, 2.45 m high, stud 400 mm O.C.		488.7
061 138-1205	Partitions, wood stud with bottom plate & double top plate, 50 mm x 150 mm, 3.65 m high, stud 400 mm O.C., pneumatic nailed	+	632.00
061 150	SHEATHING:		
061 154	SHEATHING:		
061 154-0030	Plywood,CDX 8 mm thick	SQM	12.00
061 154-0055	Plywood,CDX 10 mm thick,pneumatic nailed		12.50
061 154-0100	Plywood,CDX 13 mm thick,pneumatic nailed		16.00
061 154-0200	Plywood,CDX 16 mm thick,pneumatic nailed		18.80
061 154-0305	Plywood, CDX 20 mm thick, pneumatic nailed		23.75
061 154-2400	Wall boards 25 mm x 150 mm	+	35.13
061 154-2700	Wall boards 25 mmx 200 mm	SQM	36.60
061 154-2850	Wall board, gypsum, weatherproof, 13 mm thick		13.00
061 154-3000	Wall board, wood fiber,13 mm thick		12.00
061 154-3100	Wall board, wood fiber,16 mm thick		15.50
061 154-3800	Board, wood fiber, Asphalt impregnated, 20 mm thick	+	12.00
061 160	SUBFLOOR:		
061 164	SUBFLOOR:		
061 164-1100	Subfloor, wood fiber tongue & groove, 600 x 2450 mm planks, 25 mm thick	SQM	40.00
061 168	SUBFLOOR UNDERLAYMENT:		
061 168-0015	Underlayment, plywood grade, 10 mm thick	SQM	46.00
	Underlayment, plywood grade, 13 mm thick		69.00
	Underlayment, plywood grade, 16 mm thick		103.50
Transfer and white-service	Underlayment, particle board, 13 mm thick		11.70
	Underlayment, particle board, 16 mm thick		12.42
SANDAR CONTROL - CANADA	Underlayment, particle board,20 mm thick		14.54
	Underlayment, hardboard, 1225 mm x 1225 mm, 5 mm thick		14.77
061 250	WOOD DECKING		19 E
061 258	ROOF DECKS:		
	Roof decks, cedar planks, 75 mm thick	SQM	178.25
	Roof decks, cedar planks, 100 mm thick		239.20
061 258-0800	Roof decks, douglas fir, 100 mm thick		690.00
061 259	DECK, WOOD, PRESSURE TREATED LUMBER:		
061 259-0100	Pressure treated lumber railings and trim, 25 mm x 100 mm	LM	57.50
061 259-0300	Pressure treated lumber railings and trim, 50 mm x 150 mm	7 n 3	115.00
061 259-0400	Pressure treated decking, 25 mm x 100 mm	SQM	575.00
061 259-0600	Pressure treated decking, 50 mm x 150 mm	10.00	747.00
061 280	MINERAL FIBER CEMENT PANELS		
	MINERAL FIBER CEMENT PANELS: Including panels,		
061 281	fasteners, accessories, trim & sealant	100000000000000000000000000000000000000	
061 281	fasteners, accessories, trim & sealant Mineral fiber cement panels, architectural, textured finish, 6 mm thick	SQM	218.40

	N 6: WOOD & PLASTICS	ald Built Carne Carne	
CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
061 281-0350	Mineral fiber cement panels, architectural, textured finish, 16 mm thick	SQM	379.5
	Mineral fiber cement panels, flat sheets 6 mm thick	SQM	187.9
	Mineral fiber cement panels, flat sheets 10 mm thick	SQM	236.0
061 800	GLUED LAMINATED CONST.		
061 808	LAMINATED ROOF DECK:		
	Laminated roof deck pine,100 mm thick	SQM	120.4
	Laminated roof deck cedar,100 mm thick	993	166.6
062	FINISH CARPENTRY		
062 200	MILLWORK MOLDINGS		
062 208	MOLDINGS, BASE:		
062 208-0500	Molding base, pine, 14 mm x 90 mm	LM T	28.7
062 208-0550	Molding base, pine, 14 mm x 110 mm		32.2
062 212	MOLDING, CASINGS:		No.
062 212-0750	Molded pine casing,17 mm x 90 mm	LM	215.0
062 216	MOLDING, CEILINGS:		210.0
062 216-1200	Cornice molding, pine, 14 mm x 44 mm	LM	20.70
	Crown molding, pine, 14 mm x 90 mm	LM	23.00
062 220	MOLDINGS, EXTERIOR:	1 2 1	20.0
	Moldings exterior, cornice, boards, pine, 25 mm x 50 mm	LM	40.25
	Molding exterior, cornice, boards, pine, 25 mm x 300 mm		258.7
062 224	MOLDINGS, TRIM:	9	200.73
	Chair rail, 16 mm x 64 mm	LM	23.00
	Closet pole,Pine, 30 mm diameter		46.00
	Closet pole,Fir, 40 mm diameter		87.50
According to the control of the control	Molding trim miscellaneous, Cedar, 25 mm x 25 mm		13.80
	Molding trim miscellaneous, oak, 25 mm x 25 mm		28.75
	Molding trim miscellaneous, walnut, nominal 25 mm x 25 mm		42.58
	Molding-trim miscellaneous, teak, nominal 25 mm x 25 mm	LM	25.30
	Molding trim miscellaneous, teak, nominal 25 mm x 75 mm	"	34.50
062 228	MOLDINGS, WINDOW AND DOOR	- 1 1	0 1101
062 228-3200	Glass bead,pine 6 mm x 17 mm	LM	16.50
	Threshold, inside,oak,914mm long,16mm x 90mm	EA	28.75
	Threshold,outside,oak, 914 mm long, 38 mm x 200 mm		86.25
062 300	SHELVING	37	00.20
062 304	SHELVING:		
at the second se	Shelving, pine, no edge band, 25 mm x 300 mm	LM	103 50
	Shelving, plywood, 20 mm thick with lumber edge, 300 mm wide	1 1	86.25
	Shelving, plywood, 20 mm thick with lumber edge, 600 mm wide		138.00
	Prefinished shelves with supports, 200 mm wide,pine	LM	86.25
062 408	COUNTER TOP:		00.20
The state of the s	Counter Top, plastic laminated, 600 mm wide w/backsplash, Average	LM	402.50
	Laminated plastic on 19 mm thick particle board.	SQM	172.50
	Laminated plastic on 19 mm thick hardwood board.	SQM	201.25
AMERICAN CONTRACTOR CO	Counter top stainless channel edge, 22 mm thick	LM	517.50
		LIVI	517.50

CSI	ITEM DESCRIPTION	UNIT	COST PER
CODE			UNIT (SR)
062 408-3200	Counter top, 600 mm wide, stainless steel	SQM	460.0
062 408-3600	Table top,plastic laminate,square edge, 22 mm thick	n	373.7
062 500	PREFIN. WOOD PANELING:		
062 504	PANELING, PLYWOOD:		
062 504-2400	Plywood 19 mm, prefinished 6 mm thick, 1.2 m x 2.4 m sheets with vertical grooves, Birch faced, Average	SQM	143.75
062 504-2600	Plywood 19 mm, prefinished 6 mm thick, 1.2 m x 2.4 m sheets, faced Mahogany, African	+	143.75
062 504-2700	Plywood 19 mm, prefinished 6 mm thick, 1.2 m x 2.4 m sheets,faced Philippine (Lauan),average	SQM	110.0
062 504-2900	Plywood 19 mm, prefinished 6 mm thick, 1.2 m x 2.4m sheets,faced oak,average		127.70
062 504-2950	Plywood 19 mm, prefinished 6 mm thick, 1.2 m x 2.4m sheets,faced cherry,average		135.76
	Plywood 19 mm, prefinished 6 mm thick, 1.2 m x 2.4m sheets,faced rosewood		147.7
062 504-3400	Plywood 19 mm, prefinished 6 mm thick, 1.2 m x 2.4 m sheets,faced teak		135.70
062 504-3600	Plywood 19 mm, prefinished 6 mm thick, 1.2 m x 2.4 m sheets,faced chestnut		143.75
062 504-3800	Plywood 19 mm, prefinished 6 mm thick, 1220 mm x 2.4 m sheets,faced pecan		110.00
062 504-3900	Plywood 19 mm, prefinished 6 mm thick, 1.2 m x 2.4 m sheets, faced walnut, Average	+	110.0
062 550	PREFIN. HARDBOARD PANEL:		
062 554	PANELING, HARDBOARD:		
062 554-0050	Prefinished, hardboard tempered, 6 mm thick	SQM	138.00
062 554-0400	Prefinished,tempered pegboard (with holes for attaching hooks); 6 mm thick		138.00
062 554-1200	Prefinished plastic faced hardboard, 3 mm thick	+	109.25
062 600	BOARD PANELING		
062 604	PANELING, BOARDS:		
062 604-6400	Wood board paneling,pine, 20 mm x 100 mm	SQM	287.00
062 604-6500	Wood board paneling,cedar, 20 mm x 100 mm		287.50
062 604-6700	Wood board paneling,redwood clear, 25 mm x 100 mm	+	115.00
062 700	MISC. FINISH CARPENTRY		
062 704	BEAMS, DECORATIVE:		
062 704-0050	Beams decorative,rough sawn cedar,100 mm x 100 mm	LM	138.00
062 704-0100	Beams decorative,rough sawn cedar,100 mm x 150 mm	,,	143.75
062 730	GRILLES:		
062 730-0300	Grilles and Panels, hardwood, sanded. 1.2 m x 2.4 m, custom, prefinished,	SQM	172.50
062 740	LOUVERS:	100	
Constitution of the Consti	Louver,redwood,full circle, 600 mm diameter	EA	296.70
	Louver,redwood,half circle, 600 mm diameter	EA	280.60
062 750	SHUTTERS, EXTERIOR:	and walls	Track Pass.
062 750-0100	Shutters fixed, exteriors, aluminum louvered, w/alumin. frame 450 mm wide, 1.4m long.	SQM	828.00
062 750-0100	Shutters, exteriors, aluminum louvered, w/alumin. frame ,motor operated, 1.0 m x1.6 m	EA	2,012.50
062 750-1500	Shutters fixed, exteriors, pine louvered, primed w/pine frame 450 mm wide, 1.4 m long.	SQM	632.50
062 750-4500	Shutters fixed, exterior, Polystrene, louvered w/frame, 356 mm wide, 0.9 m long	101131 05.00	575.00
	Shutters fixed, exteriors, Vinyl louvered w/frame, 450 mm x 1.4 m long		460.00

CSI	ITEM DESCRIPTION		COST PER
CODE	ITEM DESCRIPTION	UNIT	UNIT (SR)
063	WOOD TREATMENT	1	
063 100	PRESERVATIVE TREATMENT		
063 104	PLYWOOD TREATMENT:		
063 104-0030	Plywood,fire retardent,kiln dried after treatment 10 mm thick	SQM	86.25
063 104-0100	Plywood, fire retardent, kiln dried after treatment 19 mm thick		172.50
063 104-0530	Plywood,salt treated kiln dried after treatment,10 mm thick		80.50
063 104-0570	Plywood,salt treated kiln dried after treatment,16 mm thick	•	143.75
064	ARCHITECTURAL WOODWORK		
064 100	CUSTOM CASEWORK		
064 102	CABINETS:		
064 102-0010	Corner China cabinets, pine, 2 m high,prefinished, average	LM	1,380.00
064 102-0300	Cabinets with built-in drawer units, pine, 457 mm deep, 810 mm high, prefinished average		1,380.00
064 102-0840	Kitchen base cabinets, hardwood, not incl. counter tops, 610 mm deep, 890 mm high, prefinished, with one top drawer, one door below,450mm wide.	EA	805.00
064 102-0880	Kitchen base cabinets, hardwood, not incl. counter tops, 610 mm deep, 890 mm high, prefinished, with one top drawer, one door below, 600 mm wide.		920.00
064 102-1000	Kitchen base cabinets, hardwood, not incl. counter tops, 610 mm deep, 890 mm high, prefinished, with four drawers,300mm wide		1,035.00
064 102-1060	Kitchen base cabinets, hardwood, not incl. counter tops, 610 mm deep, 890 mm high, prefinished, with four drawers, 600 mm wide		1,207.50
064 102-1260	Kitchen base cabinets, hardwood, not incl. counter tops, 610 mm deep, 890 mm high, prefinished, with two top drawers, two doors below,910mmwide.		1,380.00
064 102-1300	Kitchen base cabinets, hardwood, not incl. counter tops, 610 mm deep, 890 mm high, prefinished, with two top drawers, two doors below,1.2 m wide.		1,610.00
064 102-1500	Kitchen base cabinets,prefinished, with two doors below, for range or sink, 760 mm wide		402.50
064 102-1580	Kitchen base cabinets,prefinished, with two doors below, for range or sink,1.2 m wide		575.00
064 102-2000	Corner base cabinet, hardwood, not including coutertops, 2 top drawers, 2 doors, 890 mm H, 910 mm wide,prefinished.		920.00
064 102-4000	Kitchen wall cabinets, hardwood, prefinished, 300 mm deep; 300 mm high with two doors, 760 mm wide.		517.50
064 102-4100	Kitchen wall cabinets, hardwood, prefinished, 300 mm deep; 300 mm high with two doors, 910 mm wide.		690.00
064 102-4050	Kitchen wall cabinets, hardwood, prefinished, 300 mm deep; 380 mm high with two doors, 760 mm wide		517.50
004 102-4720	Kitchen wall cabinets, hardwood, prefinished, 300 mm deep; 610 mm high with two doors,910mm wide.		805.00
004 102-3000	Kitchen wall cabinets, hardwood, prefinished, 300 mm deep; 760 mm high with one doors, 300 mm wide		575.00
	Kitchen wall cabinets, hardwood, prefinished, 300 mm deep; 760 mm high with one doors, 450 mm wide		632.50
004 102 0000	Kitchen wall cabinets, hardwood, prefinished, 300 mm deep, 760 mm high with two doors, 685 mm wide	+	690.00
	Kitchen wall cabinets, hardwood, prefinished, 300 mm deep, 760 mm high with two doors, 910 mm wide	EA	747.50
064 102-6000	Corner wall cabinet, hardwood, prefinished, 760 mm high, 600 mm wide.1 door	14 1	575.00
064 102-6100	Corner wall cabinet, hardwood, prefinished, 760 mm high, 900 mm wide., 2 doors		690.00

CCI			COST PER
CSI CODE	ITEM DESCRIPTION	UNIT	UNIT (SR)
064 102-7000	Broom cabinet, 2.1m high, 610 mm deep, 460 mm wide		1,380.0
064 102-7500	Kitchen cabinet for 2 built-in ovens, 1 door below ovens, 1 door above ovens, 2.1m high, 610 mm deep, 685 mm wide		920.00
064 102-7550	Kitchen cabinet for 1 oven,1 door and with top provision for hood installation, 1.4 m high, 600 mm deep, 685 mm wide	ı l	805.00
064 102-9610	For metal cabinets see division 123501		
064 106	CABINET DOORS		
064 106-2600	Cabinet door, glass panel, hardwood frame 300 mm wide, 760 mm high	EA	172.50
064 106-5000	Cabinet door, hardwood, raised panel, 300 mm wide, 457 mm high		345.00
064 106-5600	Cabinet door, hardwood, raised panel, 300 mm wide, 760 mm high		460.00
064 106-6000	Cabinet door, plastic laminate on particleboard, 300 mm wide, 760 mm high		172.50
064 106-6500	Cabinet door, plastic laminate on particleboard, 457 mm wide, 760 mm high		172.50
064 108	CABINET HARDWARE		
064 108-1000	Cabinet catches, Average	EA	8.00
STATES AND STREET	Cabinet door/drawer pulls, handles		10.00
	Cabinet door/drawer pulls, flush metal,average	+	10.00
Microscopi Inc. Section Microscopi	Cabinet drawer tracks/glides, Average	PAIR	60.00
	Cabinet hinges, Average	11	10.00
064 140	VANITIES		300000000
A STATE OF THE PARTY OF THE PAR	Vanity bases, 2 doors, 760 mm high, 530mm deep, 760 mm wide,hardwood	EA	626.75
	Vanity bases, 2 doors, 760 mm high, 530 mm deep, 910 mm wide,hardwood		825.00
064 141-8150	Vanity bases, 2 doors, 760 mm high, 530 mm deep, 1.2 m wide,hardwood	+	1,121.67
064 300	STAIRWORK & HANDRAILS	1	
064 306	STAIRS PREFABRICATED		
	Box stairs, prefabricated 910 mm wide, oak treads, no handrails, 1.8 m high	EA	5,750.00
	Box stairs, prefabricated 910 mm wide, oak treads, no handrails, 2.45 m high		9,200.00
	Box stairs, prefabricated 910 mm wide, pine treads, no handrails, 2.45 m high		5,750.00
064 306-3400	Curved stairway, 990 mm wide, prefabricated Oak,finished, including balustrade system, open one side 2.75 m high		17,250.00
064 306-3700	Curved stairway, 990 mm wide, prefabricated Oak, finished, including balustrade system open two sides 2.75 m high	EA	20,700.00
064 306-4400	Spiral Oak stair, finished, prefabricated 1.4m diameter, including railing, 2.75 m high.	(#)	28,750.00
064 310	RAILING:		
064 310-0400	Interior railing architectural grade, hardwood, with spindles 150 mm O.C., 5.5 m long	LM	230.00
064 400	MISC. ORNAMENTAL ITEMS		
064 402	COLUMNS:		
064 402-0300	Columns with base plate, Fir wood, hollow round, 200 mm diameter	LM	1,725.00
064 402-0350	Columns with base plate, Fir wood, hollow round, 250 mm diameter		2,012.50
064 402-0400	Column with base plate Fir wood, solid round 90 mm diameter, upto 2.4 m high		460.00
064 402-0600	Column with base plate Fir wood, solid round 140 mm diameter, upto 2.4 m high	1417	1,035.00
064 402-0610	Column with base plate oak wood, solid round 140 mm diameter, upto 2.4 m high	 	1,380.00
064 402-0900	Square column with base plate, 90 mm x 90 mm, solid, Fir wood	LM	690.00
064 402-1000	Square column with base plate & crown top, 127 mm x 127 mm solid oak	LM	920.00
004 400 4000	Posts,rough sawn cedar, 150 mm x 150 mm	LM	54.62

CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
064 410	MILLWORK, HIGH DENSITY POLYMER		
064 410-0100	Millwork, High density polymer base, 14 mm x 80 mm	LM	11.33
064 410-0400	Millwork, High density polymer, Chair rail, 16 mm x 80 mm		10.81
064 410-0500	Millwork, High density polymer, corner, inside, 13 mm x 29 mm		5.40
064 410-0700	Millwork, High density polymer, crown, 19 mm x 97 mm	•	11.33

Division 7 Thermal & Moisture Protection

CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
071	WATERPROOFING & DAMPPROOFING	negativate	weathing in a statement
071 100	SHEET WATERPROOFING:		
071 102	ELASTOMERIC WATERPROOFING:		
071 102-0010	Elastomeric waterproofing,EPDM plain 0.8 mm thick	SQM	26.0
071 102-0020	Elastomeric waterproofing, PVC 0.8 mm thick		13.6
071 102-0100	Elastomeric waterproofing, EPDM plain 1.6 mm thick		37.0
071 102-0110	Elastomeric waterproofing, PVC 1.5 mm thick		23.1
071 102-0300	Elastomeric waterproofing, EPDM Nylon reinforced sheets upto 1.6 mm thick		48.0
071 102-0310	Elastomeric waterproofing, PVC reinforced sheets upto 1.6 mm thick	-	24.0
071 102-0900	Adhesive for bonding or splicing	KG	47.5
	Elastomeric waterproofing, Neoprene nylon reinforced 1.6 mm	SQM	51.7
	Elastomeric waterproofing, PVC reinforced 1.5 mm		23.0
Total In the second	Elastomeric waterproofing, Neoprene nylon reinforced, 3 mm thick		75.00
and the second second second	Elastomeric waterproofing, PVC reinforced, 2 mm thick		27.00
	Adhesive for splicing neoprene sheets	KG	47.00
071 102-2100	Elastomeric waterproofing, recorreng sheets, fiberglass reinforced, fluid applied 3	SQM	47.00
071 102-2110	Elastomeric waterproofing, PVC reinforced sheet, fluid applied 1.5 mm thick		28.0
071 102-2200	Elastomeric waterproofing,Polythyelene and rubberized asphalt sheets, 3 mm thick		19.50
071 102-2200	Waterproofing, asphaltic hardboard protection board, 3 mm thick		48.00
071 102-2210	Waterproofing, asphaltic hardboard protection board, 6 mm thick		55.00
071 102-2220	Elastomeric waterproofing, Polythyelene and asphaltic hardboard protection board, 6 mm thick		18.20
071 102-2400	Elastomeric waterproofing, Polyvinyl chloride sheets, plain upto 0.76 mm thick	+	13.2
071 102-3300	Elastomeric waterproofing,Bitumen modified polyurethane,fluid applied,1mm thick	LTR	19.20
71 104	MEMBRANE WATERPROOFING:		
071 104-0010	Membrane waterproofing,1 ply,felt, 4 mm thick	SQM	9.00
071 104-0020	Membrane waterproofing, PVC, 1 mm thick		18.00
071 104-0100	Membrane waterproofing,1 ply,glass fiber fabric, 4 mm thick		7.70
071 104-0110	Membrane waterproofing, PVC, 1 mm thick reinforced		19.50
071 104-0120	Membrane waterproofing, 3 mm thick reinforced with glass fiber		7.00
071 104-0130	Membrane waterproofing, 4 mm thick reinforced with glass fiber		7.50
071 104-0300	Membrane waterproofing, 2 ply,felt, 4 mm thick		9.80
071 104-0310	Membrane waterproofing, PVC, sigle layer, 1.2 mm thick		18.60
071 104-0600	Membrane waterproofing, 3 ply, felt		9.00
071 104-0610	Membrane waterproofing, PVC, single layer 1.5 mm thick		21.50
071 104-0700	Membrane waterproofing, 3 ply,glass fiber fabric, 4mm thick		7.00
	Membrane waterproofing, PVC, 1.2 mm thick		19.00
	Expanded polystyrene,protection board,10 mm thick, 24 kg/m3		9.85
	Expanded polystyrene, protection board, 13 mm thick, 24 kg/m3		9.85
	Membrane waterproofing, Fiberglass fabric, black mesh, 4 mm thick		1000000
0/1 104-10/0	incinibilatio waterprobling, i iberglass labile, black filesti, 4 filli tillek		8.00

CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
071 104-109	Membrane waterproofing, modified bitumen membrane reinforced with glass fiber 4 mm thick	SQM	8.00
071 104-109	Membrane waterproofing, modified bitumen membrane reinforced with glass fiber 4 mm thick, aluminium face		9.00
071 104-110	Membrane waterproofing, Fluid neoprene	+	28.00
071 300	BENTONITE WATERPROOFING		
071 301	BENTONITE:		
071 301-001	Bentonite panels, 1.2 m x 1.2 m, for walls, 5 mm thick	SQM	24.00
071 301-010	Bentonite panels, 1.2 m x 1.2 m,under slabs, 16 mm thick		31.0
071 301-030	Granular bentonite 20 kg bag	BAG	35.0
071 301-050	Drain board, expanded polystyrene, 38 mm thick; with filter fabric	SQM	12.00
071 301-067	Drain board, expanded polystyrene, 100 mm thick; with filter fabric	. 100	27.00
071 301-070	Vapor retarder,see polyethelene,071-922	10	
071 600	BITUMINOUS DAMPPROOFING		
071 602	BITUMINOUS ASPHALT COATING:		
071 602-050	Asphalt coating with fibers (200 Ltr./Drum)	DRUM	576.0
071 602-400	Protective board,asphalt coated,in mastic, 6 mm thick	SQM	10.5
071 750	WATER REPELLENT COAT		
071 754	RUBBER COATING:		
071 754-001	D Rubber coating, Water base liquid	LTR	4.00
071 754-020	Silicone or stearate, sprayed on masonry	,,,	7.00
071 920	VAPOR RETARDERS		
071 922	BUILDING PAPER:		
071 922-001	Building Paper, Aluminium and kraft laminated, foil 1 side	SQM	3.00
071 922-030	Building Paper, Asphalt, two ply, 13.60 kg, for subfloors		3.20
071 922-040	Asphalt felt sheathing paper, 6.80 kg		1.00
071 922-050	Building paper, Bonded Polypropylene, 0.9 m, wide, 34 m long roll	EA	98.00
071 922-060	Building Paper,Polyethylene vapor barrier,standard 0.05 mm thick	SQM	0.20
071 922-090	Building Paper,Polyethylene vapor barrier,standard 0.15 mm thick		0.80
071 922-120	Building Paper,Polyethylene vapor barrier,standard 0.25 mm thick	4 4	1.10
071 922-130	Building Paper,Polyethylene vapor barrier,clear reinforced,fire retardant,		2.79
071 922-240	Building Paper, Waterproofed kraft with sisal or fiberglass fibers, average	er e. J. S. v in stick	3.10
072	INSULATION & FIREPROOFING		
072 109	PERIMETER INSULATION:		
072 109-060	Perimeter insulation, expanded polystyrene 25 mm thick, 0.7 M2. k/W	SQM	8.00
072 110	POURED INSULATION:		
072 110-010	Poured insulation, Cellulose fiber	CU.M	43.00

CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
072 111	REFLECTIVE:	10000000	
072 111-0010	Reflective insulation, aluminium foil on 18 kg kraft, 1 side, 1.6 m2. k/W	SQM	1.80
072 116	WALL INSULATION, RIGID:		
072 116-0040 V	Wall insulation semi rigid, Fiberglass, 24 kg/m3, unfaced, 25 mm, 0.7 m2.k/W	SQM	7.00
072 116-0080 V	Wall insulation semi rigid, Fiberglass, 24 kg/m3, unfaced, 50 mm, 1.5 m2.k/W		
072 116-0390 V	Wall insulation rigid, Fiberglass, 48 kg/m3, unfaced, 38 mm thick, 1.1 m2.k/W		9.80
	Wall insulation rigid, Fiberglass, 48 kg/m3, unfaced, 50 mm thick, 1.5 m2.k/W		15.20
			17.00
072 116-0560 V	Wall insulation rigid, Fiberglass, 48 kg/m3, oil faced, 50 mm thick, 1.5 m2.k/W		18.20
072 116-0670 V	Wall insulation rigid, Fiberglass, 96 kg/m3, unfaced, 25 mm thick, 0.8 m2.k/W		19.75
072 116-0700 V	Wall insulation rigid, Fiberglass, 96 kg/m3, unfaced, 50 mm thick, 1.5 m2.k/W	No. 172-92-1	40.00
072 116-0850 V	Wall insulation rigid, Fiberglass, 96 kg/m3, foil faced, 50 mm thick, 1.5 m2.k/W		45.00
072 116-1500 V	Vall insulation rigid, Foamglass, 38 mm thick, 0.8 m2.k/W		42.00
072 116-1550 V	Wall insulation rigid, Foamglass, 77 mm thick, 1.6 m2.k/W		85.00
	Wall insulation rigid, Isocyanurate, 1.2m x 2.44 m sheet, foil faced, both sides, 3 mm thick, 0.7 m2.k/W		18.50
	Vall insulation rigid, Isocyanurate, 1.2 m x 2.44 m sheet, foil faced, both sides, 1.5 mm thick, 1.3 m2, k/W		27.00
	Vall insulation rigid, Isocyanurate, 1.2 m x 2.44 m sheet, foil faced, both sides i0 mm thick, 2.5 m2.k/W		39.50
	Vall insulation rigid,Perlite, 50 mm thick, 1.0 m2.k/W		18.00
	Vall insulation rigid,Extruded polystyrene,1.75 kg/cm2, compressive strength, 0 mm thick, 1.76 m2.k/W		16.50
072 116-1960 W	Vall insulation rigid,Extruded polystyrene, 1.75 kg/cm2, compressive strength, 6 mm thick, 2.64 m2.k/W	J	25.00
072 118 V	VALL OR CEILING INSUL., NON-RIGID:		
072 118-0060 1:	Vall or ceiling insulation,non-rigid,Fiberglass,kraft faced,batts or blankets, 2Kg/m3 density, 100 mm thick, 200 mm through 600 mm wide, 10 M long	SQM	11.60
	Vall or ceiling insulation,non-rigid,Fiberglass,kraft faced,batts or blankets, 2Kg/m3 density, 150 mm thick, 200 mm through 600 mm wide, 10 M long		16.80
072 118-0200 W	Vall or ceiling insulation,non-rigid, Fiberglass, kraft faced, batts or blankets, 2Kg/m3 density, 230 mm thick, upto 600 mm wide, 10 M long		15.00
	Vall or ceiling insulation, non-rigid, Fiberglass, kraft faced, batts or blankets, 2Kg/m3 density, 300 mm thick, upto 600 mm wide, 10 M long		21.00
072 118-0480 W	Vall or ceiling insulation,non-rigid,Fiberglass,foil faced,batts or blankets, 12kg/m3 ensity. 150 mm thick, upto 600 mm wide, 10 M long		14.00
072 118-0500 W	all or ceiling insulation,non-rigid, Fiberglass, foil faced, batts or blankets, 12Kg/m3 ensity, 230 mm thick, upto 600 mm wide, 10 M long	SQM	17.00
072 118-0800 W	/all or ceiling insulation,non-rigid,Fiberglass, unfaced,batts or blankets, 2Kg/m3, 100 mm thick, 200 mm through 600 mm wide, 10 M long		4
072 118-0860 W	/all or ceiling insulation,non-rigid,Fiberglass, unfaced,batts or blankets, 2Kg/m3, 150 mm thick, 200 mm through 600 mm wide, 10 M long		12.00
072 118-0940 W	all or ceiling insulation,non-rigid, Fiberglass, unfaced, batts or blankets, 12Kg/m3		15.85
	esity, 300 mm thick, upto 600 mm wide, 10 M long		20.00

CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
072 118-1300	Wall or ceiling insulation,non-rigid,Mineral fiber batts,kraft faced, 12 Kg/m3 density, 90 mm thick		11.00
072 118-1380	Wall or ceiling insulation non-rigid Mineral fiber batts, kraft faced, 12Kg/m3	\	24.50
072 200	ROOF & DECK INSULATION		
072 203	ROOF DECK INSULATION:		
072 203-0012	Roof deck insulation, basalt rock wool	KG	3.40
072 203-0030	Roof deck insulation, fiberboard low density, 25 mm thick, 0.49 m2.K/w	SQM	7.00
072 203-0100	Roof deck insulation, fiberboard low density, 50 mm thick, 0.98 m2.k/W		9.00
072 203-0120	Roof deck insulation, fiberboard high density, 25 mm thick, 0.44 m2.k/W		17.45
072 203-1900	Roof deck insulation,Extruded Polystyrene 1.05 kg/cm2 compressive strength, 50 mm thick,1.8 m2.k/W		16.58
072 203-1932	Roof deck insulation,Extruded Polystyrene 1.05 kg/cm2 compressive strength, 100 mm thick,1.8 m2.k/W		33.00
072 203-1960	Roof deck insulation,Extruded Polystyrene, 4.21 kg/cm2 compressive strength, 25 mm thick, 0.88 m2.k/W		9.00
072 203-1964	Roof deck insulation,Extruded Polystyrene, 4.21 kg/cm2 compressive strength, 76 mm thick, 2.64 m2.k/W		24.0
072 203-1966	Roof deck insulation,Extruded Polystyrene, 4.21 kg/cm2 compressive strength, 100 mm thick, 3.5 m2.k/W		33.0
072 203-1976	Roof deck insulation,Extruded Polystyrene, 8.08 kg/cm2 compressive strength, 100 mm thick, 3.5m2.k/W		40.00
072 400	EXTERIOR INSULATION		
072 402	EXTERIOR INSULATION FINISH SYSTEM:		
072 402-0220	mm thick expanded polystyrene	SQM	89.00
072 402-0290	mm thick expanded polystyrene		98.0
072 402-0260	Exterior insulation finish, prefabricated panels, with 38 mm profile lightweight metal backing, 100 mm thick expanded polystyrene		109.0
073	SHINGLES & ROOFING TILES		
073 100	SHINGLES		EL ID
073 101	ALUMINUM SHINGLES	E 37	
073 101-0100	Aluminum Shingles, 0.5 mm thick	SQM	44.5
073 101-0300	Aluminum Shingles, colored, 0.5 mm thick	Table Sand	48.2
073 103	FIBER CEMENT:		
073 103-0400	Fiber cement hexagonal shape, 400 mm x 400 mm	SQM	52.5
THE PROPERTY OF THE PARTY OF TH	Fiber cement square shape, 400 mm x 400 mm	1 -	47.0
073 104	ASPHALT SHINGLES:		
073 104-0250	Asphalt shingles,standard,laminated multi-layered shingles, 11.70 to 12.70 kg/m2	SQM	12.7
		1	

CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
073 104-040	Asphalt shingles, premium, laminated multi-layered shingles, 12.70 to 14.65 kg/m2	110	18.0
073 107	STEEL:		
073 107-001	Steel shingles,galvanized, 24 gauge	SQM	45.5
073 108	WOOD:		
073 200	ROOFING TILE		
073 201	ALUMINUM:		
073 201-001	Aluminum tiles, 0.48 mm thick	SQM	112.0
073 202	CLAY TILE:	The state of the s	1.72
073 202-0600	Roof covering, Clay tiles, severe weathering, smooth finish, colored	SQM	125.0
	Roof covering, Clay tiles, severe weathering, machine scored finish, colored	11	37.5
073 204	CONCRETE TILE:		
073 204-0020	Concrete tile,corrugated, 330 mm x 420 mm, 46 kg/m2 compressive strength	SQM	45.0
			45.0
073 204-2200 074 074 100	Precast concrete tile 400 mm x 400 mm x 40 mm grey PREFORMED ROOFING & SIDING PREFORMED PANELS	SQM	15.6
074	PREFORMED ROOFING & SIDING	SQM	15.6
074 074 100 074 104 074 104-0100	PREFORMED ROOFING & SIDING PREFORMED PANELS FIBERGLASS: Fiberglass corrugated panels,roofing 3.66 kg/m2	SQM	
074 100 074 104 074 104-0100 074 104-0700	PREFORMED ROOFING & SIDING PREFORMED PANELS FIBERGLASS: Fiberglass corrugated panels,roofing 3.66 kg/m2 Fiberglass corrugated siding 3.66 kg/m2 fire retardant		69.0
074 100 074 104 074 104-0100 074 104-0700	PREFORMED ROOFING & SIDING PREFORMED PANELS FIBERGLASS: Fiberglass corrugated panels,roofing 3.66 kg/m2		69.0 97.5
074 100 074 104 074 104-0100 074 104-0700 074 104-1900	PREFORMED ROOFING & SIDING PREFORMED PANELS FIBERGLASS: Fiberglass corrugated panels,roofing 3.66 kg/m2 Fiberglass corrugated siding 3.66 kg/m2 fire retardant		69.0 97.5
074 100 074 104 074 104-0100 074 104-0700 074 104-1900 074 107	PREFORMED ROOFING & SIDING PREFORMED PANELS FIBERGLASS: Fiberglass corrugated panels, roofing 3.66 kg/m2 Fiberglass corrugated siding 3.66 kg/m2 fire retardant Fiberglass sandwich panels, 70 mm thick, panels		69.00 97.50 379.00
074 100 074 104 074 104-0100 074 104-0700 074 104-1900 074 107-0300 074 107-0400	PREFORMED ROOFING & SIDING PREFORMED PANELS FIBERGLASS: Fiberglass corrugated panels,roofing 3.66 kg/m2 Fiberglass corrugated siding 3.66 kg/m2 fire retardant Fiberglass sandwich panels, 70 mm thick,panels STEEL ROOFING: Steel roofing on steel frame,corrugated or ribbed,galv., 26 ga. Steel roofing,on steel frame,corrugated or ribbed,galv., 24 ga	SQM	69.0 97.5 379.0
074 100 074 104 074 104-0100 074 104-0700 074 104-1900 074 107-0300 074 107-0400	PREFORMED ROOFING & SIDING PREFORMED PANELS FIBERGLASS: Fiberglass corrugated panels,roofing 3.66 kg/m2 Fiberglass corrugated siding 3.66 kg/m2 fire retardant Fiberglass sandwich panels, 70 mm thick,panels STEEL ROOFING: Steel roofing on steel frame,corrugated or ribbed,galv., 26 ga. Steel roofing, on steel frame flat profile, 255 mm wide, 26 ga.	SQM	69.00 97.50 379.00 24.70 29.70
074 100 074 104 074 104-0100 074 104-0700 074 104-1900 074 107-0300 074 107-0400	PREFORMED ROOFING & SIDING PREFORMED PANELS FIBERGLASS: Fiberglass corrugated panels,roofing 3.66 kg/m2 Fiberglass corrugated siding 3.66 kg/m2 fire retardant Fiberglass sandwich panels, 70 mm thick,panels STEEL ROOFING: Steel roofing on steel frame,corrugated or ribbed,galv., 26 ga. Steel roofing, on steel frame flat profile, 255 mm wide, 26 ga.	SQM	69.00 97.51 379.00 24.70 29.70 67.50
074. 074.100 074.104 074.104-0100 074.104-0700 074.107-0300 074.107-0300 074.107-0710 074.107-0750	PREFORMED ROOFING & SIDING PREFORMED PANELS FIBERGLASS: Fiberglass corrugated panels,roofing 3.66 kg/m2 Fiberglass corrugated siding 3.66 kg/m2 fire retardant Fiberglass sandwich panels, 70 mm thick,panels STEEL ROOFING: Steel roofing on steel frame,corrugated or ribbed,galv., 26 ga. Steel roofing, on steel frame flat profile, 255 mm wide, 26 ga. Steel roofing on steel frame, flat profile, 300 mm wide,	SQM	69.00 97.55 379.00 24.70 29.70 67.50
074 100 074 104 074 104-0100 074 104-0700 074 104-1900 074 107-0300 074 107-0400 074 107-0710 074 107-0750 074 107-0870	PREFORMED ROOFING & SIDING PREFORMED PANELS FIBERGLASS: Fiberglass corrugated panels,roofing 3.66 kg/m2 Fiberglass corrugated siding 3.66 kg/m2 fire retardant Fiberglass sandwich panels, 70 mm thick,panels STEEL ROOFING: Steel roofing on steel frame,corrugated or ribbed,galv., 26 ga. Steel roofing, on steel frame flat profile, 255 mm wide, 26 ga. Steel roofing on steel frame, flat profile, 300 mm wide, zinc aluminum alloy finish 24ga.	SQM	69.00 97.55 379.00 24.70 29.70 67.50
074 100 074 104 074 104-0100 074 104-0700 074 104-1900 074 107-0300 074 107-0400 074 107-0710 074 107-0750 074 107-0870 074 200	PREFORMED ROOFING & SIDING PREFORMED PANELS FIBERGLASS: Fiberglass corrugated panels,roofing 3.66 kg/m2 Fiberglass corrugated siding 3.66 kg/m2 fire retardant Fiberglass sandwich panels, 70 mm thick,panels STEEL ROOFING: Steel roofing on steel frame,corrugated or ribbed,galv., 26 ga. Steel roofing, on steel frame flat profile, 255 mm wide, 26 ga. Steel roofing on steel frame, flat profile, 300 mm wide, zinc aluminum alloy finish 24ga. Steel roofing,Flat profile, 420 mm wide, 22 ga.	SQM	69.00 97.55 379.00 24.70 29.70 67.50
074 100 074 104 074 104-0100 074 104-0700 074 104-1900 074 107-0300 074 107-0400 074 107-0710 074 107-0750 074 107-0870 074 200	PREFORMED ROOFING & SIDING PREFORMED PANELS FIBERGLASS: Fiberglass corrugated panels,roofing 3.66 kg/m2 Fiberglass corrugated siding 3.66 kg/m2 fire retardant Fiberglass sandwich panels, 70 mm thick,panels STEEL ROOFING: Steel roofing on steel frame,corrugated or ribbed,galv., 26 ga. Steel roofing, on steel frame flat profile, 255 mm wide, 26 ga. Steel roofing on steel frame, flat profile, 300 mm wide, zinc aluminum alloy finish 24ga. Steel roofing,Flat profile, 420 mm wide, 22 ga. COMPOSITE PANELS METAL FACING PANELS:	SQM	69.00 97.50 379.00 24.70 29.70 67.50 57.00 64.50
074. 074 100 074 104 074 104-0100 074 104-0700 074 104-1900 074 107-0300 074 107-0400 074 107-0710 074 107-0870 074 200 074 202	PREFORMED ROOFING & SIDING PREFORMED PANELS FIBERGLASS: Fiberglass corrugated panels,roofing 3.66 kg/m2 Fiberglass corrugated siding 3.66 kg/m2 fire retardant Fiberglass sandwich panels, 70 mm thick,panels STEEL ROOFING: Steel roofing on steel frame,corrugated or ribbed,galv., 26 ga. Steel roofing,on steel frame flat profile, 255 mm wide, 26 ga. Steel roofing on steel frame, flat profile, 300 mm wide, 26 ga. Steel roofing, Flat profile, 420 mm wide, 22 ga. COMPOSITE PANELS METAL FACING PANELS: Metal facing,Factory made sandwich wall panels,acryl.coated, 0.25 mm alum.face	SQM	69.00 97.51 379.00 24.70 29.70 67.50 57.00 64.50
074 100 074 104 074 104-0100 074 104-0700 074 104-1900 074 107-0300 074 107-0400 074 107-0710 074 107-0870 074 200 074 202	PREFORMED ROOFING & SIDING PREFORMED PANELS FIBERGLASS: Fiberglass corrugated panels,roofing 3.66 kg/m2 Fiberglass corrugated siding 3.66 kg/m2 fire retardant Fiberglass sandwich panels, 70 mm thick,panels STEEL ROOFING: Steel roofing on steel frame,corrugated or ribbed,galv., 26 ga. Steel roofing,on steel frame,corrugated or ribbed,galv., 24 ga Steel roofing, on steel frame flat profile, 255 mm wide, 26 ga. Steel roofing on steel frame, flat profile, 300 mm wide, zinc aluminum alloy finish 24ga. Steel roofing,Flat profile, 420 mm wide, 22 ga. COMPOSITE PANELS METAL FACING PANELS: Metal facing,Factory made sandwich wall panels,acryl.coated, 0.25 mm alum.face on 8 mm plywood core Factory made sandwich panel,insulated core,and with 28 ga porcelain hardboard	SQM	69.00 97.50 379.00 24.70 29.70 67.50 57.00 64.50
074. 074.100 074.104 074.104-0700 074.104-0700 074.104-0700 074.107-0300 074.107-0400 074.107-0710 074.107-0870 074.200 074.202 074.202-2100	PREFORMED ROOFING & SIDING PREFORMED PANELS FIBERGLASS: Fiberglass corrugated panels,roofing 3.66 kg/m2 Fiberglass corrugated siding 3.66 kg/m2 fire retardant Fiberglass sandwich panels, 70 mm thick,panels STEEL ROOFING: Steel roofing on steel frame,corrugated or ribbed,galv., 26 ga. Steel roofing, on steel frame flat profile, 255 mm wide, 26 ga. Steel roofing on steel frame, flat profile, 300 mm wide, zinc aluminum alloy finish 24ga. Steel roofing,Flat profile, 420 mm wide, 22 ga. COMPOSITE PANELS METAL FACING PANELS: Metal facing,Factory made sandwich wall panels,acryl.coated, 0.25 mm alum,face on 8 mm plywood core Factory made sandwich panel,insulated core,and with 28 ga porcelain hardboard core Sandwich panel,porcelain enamel on steel, 2 faces,laminated to hardboard	SQM	15.6 69.00 97.50 379.00 24.70 29.70 67.50 57.00 64.50 109.00 230.00 189.34

CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
074 602-0010	Aluminum siding, 0.48 mm thick	SQM	19.00
074 602-2750	Aluminum siding, Ribbed, 76 mm profile, 1.27 mm thick	SQM	55.65
074 602-4600	Aluminum siding, Sandwich panels, with 25 mm insulation	SQM	139.00
074 606	STEEL SIDING:		
074 606-0050	Steel siding, Beveled, vinyl coated, 250 mm wide	SQM	33.50
074 606-0300	Steel siding, Galv.corrugated or ribbed, 22 gauge		33.70
AMERICAN PROPERTY AND ADDRESS.	Steel siding, Factory sandwich panel, 26 ga., 25 mm insulation, galvanized, 2 sides		
074 606-2000	Steel siding Factory sandwich panel 22 ga galv 50 mm insulation baked		130.50
074 607	VINYL SIDING:		
074 607-0020	Vinyl siding,Solid PVC panels, 250 mm wide	SQM	20.65
074 609	WOOD SIDING, BOARDS:		
074 609-3200	Wood siding, boards, cedar bevel, short lengths, 13 mm x 150 mm	SQM	61.70
074 609-3800	Wood siding, boards, rough sawn, 25 mm x 100 mm,		83.20
074 609-5250	Wood siding, boards, redwood, Tounge & Groove boards, 25 mm x 200 mm		73.15
074 609-5400	Wood siding, boards, white pine, 25 mm x 200 mm		20.36
074 611	WOOD PRODUCT SIDING:		
074 611-0050	Wood lap siding,hardboard,11 mm x 200 mm wood grain texture finish	SQM	22.00
074 611-0100	Wood panel siding, 11 mm thick,smooth,textured or grooved		23.53
074 611-0700	Wood particle board siding, overlaid, 10 mm thick		18.22
074 611-2800	Wood siding, Plywood, redwood, textured siding, 16 mm thick		52.22
074 611-3000	Wood siding, Plywood, polyvinyl chloride coated, 10 mm thick	1	27.11
075	MEMBRANE ROOFING	750	
075 100	BUILT-UP ROOFING		
075 101	ASPHALT:		
075 101-0010	Asphalt Coated felt.13 kg, 18.6 m2/roll	ROLL	1.53
075 101-0300	Asphalt Coated felt, roll roofing 30 kg.		4.00
075 352-0700	Modified Bitumen roofing,4mm,3.81 to 5.86 kg/m2,with asphalt emulsion coating		9.00
075 352-0710	Modified Bitumen roofing, PVC 1.2 mm, loose laid	SQM	18.00
075 352-0720	Modified Bitumen roofing, membranes with polyester reinforcement, 3 mm thick		7.00
075 352-0730	Modified Bitumen roofing, membranes with polyester reinforcement, 4 mm thick		8.00
075 352-0740	Modified Bitumen roofing, membranes with polyester reinforcement, 4 mm thick, granule finish		8.00
075 352-0750	Modified Bitumen roofing, membranes double reinforced with polyester + glass fiber, 4 mm thick		8.00
076	FLASHING & SHEET METAL		
076 100	SHEET METAL ROOFING		
076 101	COPPER ROOFING:	100	* = 1 125
entiner/enterphi	Copper roofing, 454 gram	KG	27.00
		1.0	27.00

A COLUMN TO SERVICE A SERV	N 7:THERMAL & MOISTURE PROTECT		
CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
076 101-0300	Copper roofing, 567 gram	KG	27.00
076 102	LEAD ROOFING:		
076 102-0010	Lead roofing	KG	6.00
076 103	MONEL ROOFING:		
076 103-0010	Monel roofing 0.46 mm thick	SQ.M	258.00
076 103-0100	Monel roofing 0.53 mm thick	11	338.00
076 104	STAINLESS STEEL ROOFING:		
076 104-0100	Stainless steel roofing,type 304, 26 gauge	SQ.M	120.50
076 105	ZINC:		
076 105-0100	Zinc copper alloy roofing, 0.7 mm thick	SQ.M	196.50
Security Management makes M	Zinc copper alloy roofing, 1 mm thick	ii .	261.05
076 200	SHEET METAL FLASH & TRIM		
076 201	DOWNSPOUTS:		
076 201-0400	Downspouts aluminum 76 mm x 100 mm,enameled, 0.60 mm thick	LM	16.35
	Downspouts,round,corrugated aluminum,100 mm diameter, 0.60 mm thick	1,1	11.30
076 201-0900	Aluminum wire strainer, round 100 mm	EA	5.16
076 201-1300	Aluminum wire strainer,rectangular 76 X 100 mm	14.6	9.18
076 201-1800	Downspouts,copper,round, 454 gram, 100 mm diameter	LM	49.90
076 201-2500	Downspouts,copper,rectangular,plain, 76 mm x 100 mm	ii.	32.40
076 201-2700	Copper wire strainer,rectangular 76 x100 mm	EA	12.54
076 201-3300	Copper wire strainer,round 100 mm	EA	16.00
076 201-4900	Downspouts, steel, galvanized, round, corrugated, 100 mm diam., 28 ga.	LM	6.89
076 201-5700	Downspouts, steel, galvanized, rectangular, corrugated, 28 ga., 76 mm x 100 mm	LM	13.94
076 201-6600	Galvanized steel wire strainer,rectangular 76 x 100 mm	EA	8.88
076 201-7000	Galvanized steel wire strainer,round 100 mm	546	3.95
076 201-7500	Downspouts, steel pipe, black, extra heavy, 100 mm diameter	LM	120.00
076 201-7600	Downspouts,steel pipe,black,extra heavy,150 mm diameter	- 11	250.00
076 201-8200	Downspouts, vinyl, rectangular, 50 mm x 76 mm	**	7.00
076 202	DRIP EDGE:		
076 202-0300	Drip edge,aluminum, 0.40 mm thick, 710 mm wide	LM	12.88
076 202-0400	Drip edge,steel,galvanized, 200 mm wide	30	3.22
076 203	ELBOW:		
076 203-0010	Elbow aluminum, for downspout 76 mm x 100 mm	EA	8.32
076 203-0600	Elbow copper, 454 gram,for downspout, round, 76 mm diameter	u.	38.30
076 204	FLASHING:		
076 204-0010	Flashing aluminum,mill finish, 0.30 mm thick	SQM	10.18
076 204-0200	Flashing aluminum,mill finish, 1 mm thick	SQM	50 64
076 204-1600	Flashing copper, 454 gram, sheets	SQM	100 41
076 204-2500	Flashing copper, 907 gram, sheets		200.82

CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
076 204-6100	Flashing lead-coated copper,fabric-backed		40.1
076 204-8900	Flashing stainless steel sheets, 32 ga, 0.25 mm thick	*	66.00
076 205	GUTTERS:		
076 205-0010	Gutters aluminum, 127 mm box, 0.7 mm thick	LM	8.18
	Gutters copper, half round, 454 gram, 150 mm wide		40.74
076 205-2400	Gutters steel,galv.,half round or box,stock 127 mm wide	•	6.40
076 206	GUTTER GUARD:		
076 206-0010	Gutter guard 150 mm wide strip,aluminum mesh	LM	3.68
076 210	REGLET:		
076 210-0010	Reglet aluminum, 0.64 mm, in concrete parapet	LM	8.47
076 210-0100	Reglet copper, 283.5 gram, in concrete parapet		14.6
076 210-0400	Reglet galvanized steel, 24ga.,in concrete parapet	+	6.40
076 217	SOFFIT:		
076 217-0010	Sofit aluminum, 0.5 mm thick	SQM	25.6
076 217-0100	Sofit baked enamel on steel, 16 or 18 gauge	SQM	114.7
077 100	PREFAB ROOF SPECIALTIES EXPANSION JOINT:		
077 077 100 077 103	PREFAB ROOF SPECIALTIES EXPANSION JOINT: Expansion joint, butyle or neoprene center with foam insulation, metal flanges,	Warning .	
077 100	PREFAB ROOF SPECIALTIES EXPANSION JOINT: Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 65 mm	LM	67.42
077 100 077 103	PREFAB ROOF SPECIALTIES EXPANSION JOINT: Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 125 mm	Warning .	
077 100 077 103 077 103-0400	EXPANSION JOINT: Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 125 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges,	Warning .	94.6
077 100 077 103 077 103-0400 077 103-0610	PREFAB ROOF SPECIALTIES EXPANSION JOINT: Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 125 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 200 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges.	Warning .	94.6
077 100 077 103 077 103-0400 077 103-0610 077 103-0620	EXPANSION JOINT: Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 125 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 200 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, copper, 454 grams for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges,	Warning .	94.6 149.1 91.8
077 100 077 103 077 103-0400 077 103-0610 077 103-0620 077 103-0700	EXPANSION JOINT: Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 125 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 200 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, copper, 454 grams for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, copper, 454 grams for openings upto 125 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges,	Warning .	94.6 149.1 91.8 123.3
077 100 077 103 077 103-0400 077 103-0610 077 103-0620 077 103-0700	EXPANSION JOINT: Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 125 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 200 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, copper, 454 grams for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, copper, 454 grams for openings upto 125 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, galvanized steel, 26 ga. for openings upto 65 mm	Warning .	94.6 149.1 91.8 123.3 55.0
077 100 077 103 077 103-0400 077 103-0610 077 103-0700 077 103-0910 077 103-1000	EXPANSION JOINT: Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 125 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 200 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, copper, 454 grams for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, copper, 454 grams for openings upto 125 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, galvanized steel, 26 ga. for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, galvanized steel, 26 ga. for openings upto 200 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, galvanized steel, 26 ga. for openings upto 200 mm	Warning .	94.6 149.1 91.8 123.3 55.0 139.1
077 100 077 103 077 103-0400 077 103-0610 077 103-0620 077 103-0700 077 103-1000 077 103-1220	EXPANSION JOINT: Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 125 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 200 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, copper, 454 grams for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, copper, 454 grams for openings upto 125 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, galvanized steel, 26 ga. for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, galvanized steel, 26 ga. for openings upto 200 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, lead-coated copper, 454 grams for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, lead-coated copper, 454 grams for openings upto 65 mm	Warning .	94.6 149.1 91.8 123.3 55.0 139.1
077 100 077 103 077 103-0400 077 103-0610 077 103-0620 077 103-0700 077 103-1000 077 103-1220 077 103-1300	EXPANSION JOINT: Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 125 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 200 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, copper, 454 grams for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, copper, 454 grams for openings upto 125 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, galvanized steel, 26 ga. for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, galvanized steel, 26 ga. for openings upto 200 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, lead-coated copper, 454 grams for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, stainless steel, 0.46 mm, for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, stainless steel, 0.46 mm, for openings upto 65 mm	Warning .	67.42 94.63 149.18 91.80 123.33 55.08 139.14 120.43 81.76
077 100 077 103 077 103-0400 077 103-0610 077 103-0620 077 103-0700 077 103-1000 077 103-1300 077 103-1300 077 103-1820	EXPANSION JOINT: Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 125 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 200 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, copper, 454 grams for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, copper, 454 grams for openings upto 125 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, galvanized steel, 26 ga. for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, galvanized steel, 26 ga. for openings upto 200 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, lead-coated copper, 454 grams for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, lead-coated copper, 454 grams for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, stainless steel, 0.46 mm, for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, stainless steel, 0.46 mm, for openings upto 65 mm	Warning .	94.6; 149.18 91.8(123.3(55.0) 139.14 120.49
077 100 077 103 077 103-0400 077 103-0610 077 103-0620 077 103-0700 077 103-1000 077 103-1300 077 103-1820 077 103-1950	EXPANSION JOINT: Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 125 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 200 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, copper, 454 grams for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, copper, 454 grams for openings upto 125 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, galvanized steel, 26 ga. for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, galvanized steel, 26 ga. for openings upto 200 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, lead-coated copper, 454 grams for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, stainless steel, 0.46 mm, for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, stainless steel, 0.46 mm, for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, stainless steel, 0.46 mm, for openings upto 200 mm	Warning .	94.6 149.1 91.8 123.3 55.0 139.1 120.4 81.7 176.4 31.1
077 100 077 103 077 103-0400 077 103-0610 077 103-0620 077 103-070 077 103-1000 077 103-1300 077 103-1820 077 103-1950 077 103-2000 077 103-2100	EXPANSION JOINT: Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 125 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 200 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, copper, 454 grams for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, copper, 454 grams for openings upto 125 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, galvanized steel, 26 ga. for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, galvanized steel, 26 ga. for openings upto 200 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, galvanized steel, 26 ga. for openings upto 55 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, lead-coated copper, 454 grams for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, stainless steel, 0.46 mm, for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, stainless steel, 0.46 mm, for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, stainless steel, 0.46 mm, for openings upto 200 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, stainless steel, 0.46 mm, for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, stainless steel, 0.46 mm, for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, stainless steel, 0.46 mm, for openings upto 200 mm	Warning .	94.6; 149.18 91.80 123.36 55.08 139.14 120.49 81.76 176.40 31.13 216.60 78.90
077 100 077 103 077 103-0400 077 103-0610 077 103-0620 077 103-0700 077 103-1000 077 103-1300 077 103-1820 077 103-2100 077 103-2100 077 103-2500	EXPANSION JOINT: Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 125 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, aluminum, 0.80 mm thick for openings upto 200 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, copper, 454 grams for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, copper, 454 grams for openings upto 125 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, galvanized steel, 26 ga. for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, galvanized steel, 26 ga. for openings upto 200 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, galvanized steel, 26 ga. for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, lead-coated copper, 454 grams for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, stainless steel, 0.46 mm, for openings upto 65 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, stainless steel, 0.46 mm, for openings upto 200 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, stainless steel, 0.46 mm, for openings upto 200 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, stainless steel, 0.46 mm, for openings upto 200 mm Expansion joint, butyle or neoprene center with foam insulation, metal flanges, stainless steel, 0.46 mm, for openings upto 200 mm	Warning .	94.6 149.1 91.8 123.3 55.0 139.1 120.4 81.7 176.4 31.1 216.6

CSI			COST PER
CODE	ITEM DESCRIPTION	UNIT	UNIT (SR)
077 104-030	0 Fascia aluminum ,reverse board & batten, 0.8 mm thick colored	SQ.M	61.6
077 104-060	0 Fascia,steel galvanized and enameled,short panels	SQ.M	96.2
077 105	GRAVEL STOP:		
077 105-030	0 Gravel stop aluminum, 150 mm face height,1 mm thick,mill finish	LM	22.3
077 105-090	0 Gravel stop aluminum, 300 mm face height, 2 piece,mill finish		31.4
077 105-136	Gravel stop,galv.steel, 24 ga.,100 mm leg.plain,with continuous cleat,150 mm high		21.2
077 105-160	0 Gravel stop, polyvinyl chloride, 230 mm face height		36.0
	0 Gravel stop, stainless steel, 20 ga, 300 mm face height		150.6
077 200	ROOF ACCESSORIES:		
077 204	CEILING HATCHES:		
077 204-001	O Ceiling hatches, 760 mm x 760 mm, single leaf, steel frame & cover	EA	1,076.00
077 204-010	Ceiling hatches, 760 mm x 760 mm, single leaf, steel frame & aluminum cover		1,076.00
077 204-030	Ceiling hatches, 760 mm x 915 mm, single leaf, steel frame & steel cover		1,090.1
077 204-040	Ceiling hatches, 760 mm x 915 mm, single leaf, steel frame & aluminum cover	•	1,191.00
077 206	ROOF HATCHES:		
077 206-050	Roof hatches with 25 mm fiberglass insul., 760 mm x 915 mm,aluminum curb and cover	EA	932.50
077 206-052	Roof hatches with 25 mm fiberglass insul., 760 mm x 915 mm,galvanized steel curb and aluminum cover		861.00
077 206-060	Roof hatches with 25 mm fiberglass insul., 760 mm x 1370 mm, & with aluminum curb and cover		1,248.00
077 206-080	steel curb and aluminum cover		1,219.00
077 206-090	Roof hatches with 25 mm fiberglass insul., 760 mm x 1370 mm, & with galvanized steel curb and cover		1,176.00
	Roof hatches, 760 mm x 2440 mm, aluminum curb and cover		2,553.00
	Roof hatches, 760 mm x 2440 mm,galvanized steel curb and aluminum cover		2,481.0
	Roof hatches, 760 mm x 2440 mm,galvanized steel curb and cover	<u> </u>	2,309.00
077 208	SMOKE VENT:		
	Smoke venet,insulated, 1220 mm x 1220 mm,aluminum cover&frame	EA	3,370.00
SENATORIUS - DAVIDO DI REPUBADI	Smoke venet,insulated, 1220 mm x 1220 mm,galvanized cover&frame		3,083.00
	Smoke venet,insulated, 1220 mm x 2400 mm,aluminum cover&frame		4,590.00
077 210	Smoke venet,insulated, 1220 mm x 2400 mm,galvanized cover&frame ROOF VENTS:		4,016 00
	T		
	Roof vents, mushroom for built-up roofs, aluminum ,150 mm high Roof vents, mushroom for built-up roofs, PVC, 150 mm high	EA "	79.00
078	SKYLIGHTS		79.00
078 100	PLASTIC SKYLIGHTS		n in the second
State of Section			12.2
078 101	SKYLIGHT:		
078 101-0300	Skylight plastic roof domes,curb mounted,with 100 mm insulated curb "L" frames,nominal size 1.00 m2,double, lexan sheet	SQM	1,250.00

DIVISIO	N 7:THERMAL & MOISTURE PROTECT	TION	
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
078 101-2930	Skylight plastic roof pyramid, acrylic double skin, 6 mm thick, nominal size 6 m2		3,300.00
078 101-2940	Skylight plastic roof pyramid, polycarbonat single skin, 6 mm thick, nominal size 6 m2	4	2,300.00
078 101-2950	Skylight plastic roof pyramid, polycarbonat double skin, 6 mm thick, nominal size 6 m2	•	4,700.00
078 200	METAL FRAMED SKYLIGHTS		
078 202	SKYROOFS		
078 202-0010	Skyroofs, translucent panels, 70 mm thick	SQ.M HORIZONTAL	476.00
078 400	GLASS BLOCK SKYLIGHTS		
078 402	PREFABRICATED:	-26	
078 402-0010	Prefabricated glass block with metal frame average	SQ.M	1,786.00
079	JOINT SEALERS		
079 100	JOINT FILLERS & GASKETS		
079 204	SEALANTS & CAULKINGS	1.00	N N
079 204	CAULKING AND SEALANTS:		
079 204-0020	Acoustical sealant, elastomeric, 200 ml / Tube	CARTRIDGE	8.00
	Caulking compound, oil base, bulk,brilliant white color	и	4.00
	Caulking & Sealant, butyl base, bulk		15.00
079 204-2000	Caulking & sealant, latex acrylic base, bulk		3.75
	Caulking & sealant, latex acrylic base, cartridges	+	3.75
	Caulking and sealant, polysulfide compound, 1 component, bulk	LITER	23.00
079 204-3200	Caulking and sealant,polyurethane,1 or 2 components,bulk		23.00
	Caulking and sealant, silicone	1	25.00
	Caulking and sealant,silicone,rubber,catridges 280 ML	CARTRIDGE	9.90
The same of the sa	Sealant,neoprene gaskets,	LM -	1.70
THE RESERVE OF THE PARTY OF THE		LM	0.45
079 204-5950	Sealant, FVC tape,		
		KG	6.50
079 204-6010	Bituminous adhesive for protection boards Sealant cold applied	KG	6.50 5.00

CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
078 101-0350	Skylight plastic roof domes,curb mounted,with 100 mm insulated curb "L" frames,nominal size 1.00 m2,single, lexan sheet, 6 mm	SQM	750.0
078 101-0400	Skylight plastic roof domes curb mounted with 100 mm insulated curb		3,900.0
078 101-0700	Skylight plastic roof domes,curb mounted,with 100 mm insulated curb "L" frames,nominal size 2 m2,single, lexan 6 mm		2,500.0
078 101-0900	"L" frames, nominal size 3 m2, double, lexan and steel frame		18,000.0
078 101-1200	"L" frames,nominal size 4 m2,double		28,800.00
078 101-2130	Skylight, ventilating isulated plexiglass dome with insulated curb mounting size 915 mm x 915 mm, lexan sheet, 4 mm	+	620.00
078 101-2150	Skylight, ventilating isulated plexiglass dome with insulated curb mounting size 1320 mm x 1320 mm, lexan sheet 6 mm	EA	1,700.00
078 101-2160	Skylight, ventilating isulated plexiglass dome with insulated curb mounting size 710 mm x 1320 mm, lexan 6 mm	и	1,400.00
078 101-2710	Skylight plastic roof domes, acrylic single skin, 4 mm thick, nominal size 1 m2	SQM	400.00
078 101-2720	Skylight plastic roof domes, acrylic double skin, 4 mm thick, nominal size 1 m2	SQM	850.00
078 101-2730	Skylight plastic roof domes, polycarbonate single skin, 4 mm thick, nominal size 1 m2		500.00
078 101-2740	Skylight plastic roof domes, polycarbonate double skin, 4 mm thick, nominal size 1 m2		1,050.00
078 101-2750	Skylight plastic roof domes, acrylic single skin, 4 mm thick, nominal size 1.21 m2		500.00
078 101-2760	Skylight plastic roof domes, acrylic double skin, 4 mm thick, nominal size 1.21 m2		1,060.00
078 101-2780	Skylight plastic roof domes, polycarbonate single skin, 4 mm thick, nominal size 1.21 m2		600.00
078 101-2790	Skylight plastic roof domes, polycarbonate double skin, 4 mm thick, nominal size 1.21 m2		1,260.00
078 101-2800	Skylight plastic roof domes, acrylic single skin, 6 mm thick, nominal size 1.69 m2		680.00
078 101-2810	Skylight plastic roof domes, acrylic double skin, 6 mm thick, nominal size 1.69 m2		1,400.00
078 101-2820	Skylight plastic roof domes, polycarbonat single skin, 6 mm thick, nominal size 1.69 m2		850.00
078 101-2830	Skylight plastic roof domes, polycarbonat double skin, 6 mm thick, nominal size 1.69 m2		1,800.00
078 101-2840	Skylight plastic roof domes, acrylic single skin, 6 mm thick, nominal size 4 m2		1,050.00
	Skylight plastic roof domes, acrylic double skin, 6 mm thick, nominal size 4 m2		2,250.00
	Skylight plastic roof domes, polycarbonat single skin, 6 mm thick, nominal size 4 m2		1,450.00
	Skylight plastic roof domes, polycarbonat double skin, 6 mm thick, nominal size 4 m2		3,000.00
	Skylight plastic roof pyramid, acrylic single skin, 4 mm thick, nominal size 1.5 m2	•	650.00
	Skylight plastic roof pyramid, acrylic double skin, 4 mm thick, nominal size 1.5 m2	SQM	1,350.00
	Skylight plastic roof pyramid, polycarbonat single skin, 4 mm thick, nominal size 1.5 m2		850.00
078 101-2910	Skylight plastic roof pyramid, polycarbonat double skin, 4 mm thick, nominal size 1.5 m2		1,750.00
078 101-2920	Skylight plastic roof pyramid, acrylic single skin, 6 mm thick, nominal size 6 m2		1,600.00

Division 8 Doors & Windows

DIVISIO	N 8: DOORS & WINDOWS	Alle God Son	
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
081	METAL DOORS & FRAMES	V Table 18	
081 100	STEEL DOORS & FRAMES		
081 103	COMMERCIAL STEEL DOORS: "Hardware & frame	not inclu	ded"
081 103-0020	Commercial Steel Door,Flush ,full panel,Hollow core, 35 mm thick, 20 ga., 610 mm x 2035 mm,hardware & frame not included	EA	469.0
081 103-0100	Commercial Steel Door, Flush , full panel, Hollow core, 35 mm thick, 20 ga., 915 mm x 2135 mm, hardware & frame not included		509.0
081 103-0340	Commercial Steel Door Flush Hollow core Half Glass 20 as 815 mm v 2025		
081 103-0400	Commercial Steel Door Flush Hallow core Half Class 20 as 015 mm v 2125		509.0
081 103-1060	Commercial Steel Door,Flush,full panel,Hollow core, 44 mm thick, 20 ga., 915		509.0
081 103-1100	mm x 2135 mm, hardware & frame not included Commercial Steel Door,Flush,full panel,Hollow core, 44 mm thick, 20 ga., 1220		509.00
081 103-1120	mm x 2440 mm, hardware & frame not included Commercial Steel Door, Flush, full panel, Hollow core, 44 mm thick, 18 ga., 815		523.0
081 103-1180	mm x 2035 mm, hardware & frame not included Commercial Steel Door,Flush,full panel,Hollow core, 44 mm thick, 18 ga., 1220		509.0
081 103-1200	mm x 2135 mm, hardware & frame not included Commercial Steel Door,Flush,full panel,Hollow core, 44 mm thick, 18 ga., 1220		509.0
081 103-1220	mm x 2440 mm, hardware & frame not included Commercial Steel Door, Flush, Half glass, panel, hollow core, 44 mm thick, 20 ga.,		523.0
081 103-1280	815 mm x 2035 mm, hardware & frame not included Commercial Steel Door, Flush, Half glass, panel, hollow core, 44 mm thick, 20 ga.,		559.00
081 103-1360	1220 mm x 2135 mm, hardware & frame not included Commercial Steel Door, Flush, Half glass, panel, hollow core, 44 mm thick, 18 ga.,		559.00
FOREME BELST WAYNES	915 mm x 2135 mm, hardware & frame not included Commercial Steel Door, Flush, Half glass, panel, hollow core, 44 mm thick, 18 ga.,		559.00
081 103-1400	1220 mm x 2440 mm, hardware & frame not included Commercial Steel Door,flush,insulated,44mm thick,full panel, 18 ga, 915 mm x		573.00
081 103-1760	2135 mm, hardware & frame not included Commercial Steel Door,flush,insulated, 44 mm thick,full panel, 18 ga, 1220 mm x		509.00
081 103-1800	2440 mm, hardware & frame not included		523 (
081 103-1860	Commercial Steel Door,flush,insulated, 44 mm thick,half glass, 18 ga, 915 mm x 2135 mm, hardware & frame not included		559.00
081 103-1900	Commercial Steel Door,flush,insulated, 44 mm thick,half glass, 18 ga, 1220 mm x 2440 mm, hardware & frame not included	•	559.00
81 106	DOOR FRAMES:		
081 106-0100	Door frames, 150 mm steel channels 12 kg/m, with anchors and bar stops, 915 mm x 2135 mm door, weighs 91 kg	EA	276.00
081 106-0200	Door frames, 200 mm steel channels 17 kg/m, with anchors and bar stops,1830 mm x 2440 mm door, weighs 136 kg		320 00
081 106-0400	Door frames, 250 mm steel channels, 22 kg/m with anchors and bar stops,3000 mm x 3000 mm door weighs 238 kg		472.00
081 106-0600	Door frames, 310 mm steel channels 31 kg/m with anchors and bar stops, 3660 mm x 3660 mm door weighs 374 kg		520 00
81 110	FIRE DOOR: "Hardware & frame not included"		
081 110-0040	Fire door steel,flush, 90 minuite,full panel, 20 ga., 815 mm x 2035 mm,hardware & frame not included	EA	551.00
081 110-0080	Fire door steel,flush, 90 minuite,full panel, 20 ga., 915 mm x 2135 mm,hardware & frame not included	EA	551.00
081 110-0140	Fire door steel,flush, 90 minuite,full panel, 16 ga., 915 mm x 2035 mm,hardware & frame not included	EA	551.00

	N 8: DOORS & WINDOWS		0007.555
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
081 110-0180	Fire door steel,flush, 90 minuite,full panel, 18 ga., 915 mm x 2135 mm,hardware & frame not included		551.0
081 110-0200	Fire door steel,flush, 90 minuite,full panel, 18 ga., 1220 mm x 2135 mm,hardware & frame not included		565.0
081 110-0580	Fire door steel,flush, 90 min.,composite, 20 ga., 915 mm x 2135 mm		551.0
081 110-0700	Fire door steel,flush, 3 hour, composite,18 ga., 1220 mm x 2135 mm	•	565.0
081 200	ALUMINUM DOORS & FRAMES:		
081 204	ALUMINUM FRAMES:		
081 200-0500	Aluminum frames entrance door, 1830 mm x 2135 mm opening, clear finish	OPENING	506.0
081 200-0520	Aluminum frame entrance door, 915 mm x 2135 mm opening,bronze finish		429.0
081 200-0540	Aluminum frame entrance door, 915 mm x 2135 mm opening, black finish		429.0
081 200-1110	Aluminum frames entrance,black finish,with 915 mm high transoms, 915 mm x 3050 mm opening		622.0
081 200-1550	Aluminum frames entrance,bronze finish,with 915 mm high transoms, 1830 x 3050 mm opening		765.0
081 212	ALUMINUM DOORS & FRAMES:		
081 212-0020	Aluminum doors & frames,entrance,narrow stile,including hardware and closer,no glass, 915 mm x 2135 mm opening,clear finish	EA	1,594.0
081 212-0040	Aluminum doors & frames,entrance,narrow stile,including hardware and closer,noglass, 915 mm x 2135 mm opening,dark bronze finish	e44(a	1,594.
081 212-0060	Aluminum doors & frames,entrance,narrow stile,including hardware and closer,no glass, 915 mm x 2135 mm opening,black finish		1,594.
081 212-0200	Aluminum doors & frames,entrance,narrow stile,including hardware and closer,no glass, 1067 mm x 3050 mm opening, 915 mm high transom,clear finish		1,846.0
081 212-0400	Aluminum doors & frames,entrance,narrow stile,including hardware and closer,no glass,1830 mm x 3050 mm opening,915mm high transom,dark bronze finish		2,702.0
081 212-1000	Aluminum doors & frames,entrance,narrow stile,including hardware and concealed panic devicer with glass, double glazed 17 mm, 915 mm x 2135 mm opening,light bronze finish		3,198.0
081 212-1100	Aluminum doors & frames,entrance,narrow stile,including hardware and concealed panic device with glass, double glazed 17 mm,1067 mm x 3050 mm opening, 915 mm high transom,black finish		3,665.0
081 212-1200	Aluminum doors & frames,entrance,narrow stile,including hardware and closer,with glass, double glazed 25 mm, 1830 mm x 2135 mm opening,dark bronze finish		3,103.0
	Aluminum doors & frames,entrance,narrow stile,including hardware and closer,with glass, double glazed 25 mm,1830 mm x 3050 mm opening, 915 mm high transom,Painted.		3,628.0
082	WOOD & PLASTIC DOORS		
082 050	WOOD & PLASTIC DOORS	Tiella.	4 14
82 054	WOOD FRAMES:	er Hanke	
082 054-0440	Exterior frame,including exterior trim,pine, 42 mm upto 167 mm deep	LM	132.0
082 054-0600	Exterior frame,including exterior trim,oak, 42 mm upto 167 mm deep	LM	174.0
082 054-0800	Exterior frame,including exterior trim,oak, 42 mm upto 116 mm deep,wallnut	LM	251.0
082 054-0900	Exterior frame,including exterior trim,cherry, 42 mm upto 167 mm deep		284.0
082 054-1000	Exterior wood sills, 50 mm x 200 mm deep oak	-	207.0
	Wood frame,interior pine, 42 mm upto 92 mm deep		89.0
mo management and track the N	Wood frame,interior pine,42 mm upto 132 mm deep	1	91.0
	Wood frame,interior, oak, 42 mm x 132 mm deep	- LM	116.0

DIVISIO	N 8: DOORS & WINDOWS		
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
082 054-3440	Wood frame,interior, wallnut, 42 mm x 132 mm deep	LM	198,0
082 062	WOOD DOOR, ARCHITECTURAL:		1
082 062-0020	Interior 'Wood door architectural, flush, 44 mm, 7 ply,hollow core,birch face,hardware and frame not included	EA	730.0
082 062-0220	Interior 'Wood door architectural, flush, 44mm, 7 ply,hollow core,oak face,hardware and frame not included		680.0
082 062-0320	Interior 'Wood door architectural, flush, 44 mm, 7 ply,hollow core,wallnut face,hardware and frame not included		943.0
082 062-0380	Interior 'Wood door architectural, flush, 44mm, 7 ply,hollow core,african mhogany,hardware and frame not included		737.0
082 062-0400	Interior 'Wood door architectural, flush, 44mm, 7 ply,hollow core,cherry face,hardware and frame not included		859.0
082 062-0410	Interior 'Wood door architectural, flush, 44mm, 7 ply,hollow core,red wood,hardware and frame not included		732.0
082 062-0420	Interior 'Wood door architectural, flush, 44mm, 7 ply,hollow core,phillipine mahogany,hardware and frame not included		726.0
082 062-1720	Interior Wood door architectural, flush, 7 ply, 44 mm,hollow core,high pressure plastic laminate,hardware and frame not included		710.0
082 062-2220	Interior Wood door architectural, flush 5 ply particle core,oak face,hardware and frame not included Interior Wood door architectural, flush, 5 ply particle core,walnut face,hardware		814.0
082 062-2320	and frame not included Interior Wood door, architectural flush, 5 ply particle core, african mahogany		1,025
082 062-2400	face,hardware and frame not included	V	820.0
082 066	WOOD DOOR,DECORATOR:		
	Solid wood door, 44 mm,african mahogany	SQM	1,361.3
082 066-3010	Solid wood door, 44 mm,cherry		1,843.6
	Solid wood door, 44 mm,phillipine mahogany		1,154.5
082 066-3030	Solid wood door, 44 mm,brazilian mahogany		1,154.5
082 066-3200	Solid wood door, 44 mm,red oak		1,265.0
082 066-4000	Solid wood door, 44 mm,hand curved mahagony	+	700.0
082 070	WOOD FIRE DOORS:		
082 070-0140	Wood fire doors mineral core, 1 hour rated,oak face	EA	2,694.0
082 070-0280	Wood fire doors mineral core, 1 hour rated, cherry face	EA	2,821.0
082 074	WOOD DOORS, PANELED:		
082 074-0540	Wood doors,paneled interior,six panel,solid, 35 mm thick,pine,hardware & frame not included	SQM	1,034.5
082 074-0560	Wood doors,paneled interior,two panel,solid, 35 mm thick,pine,hardware & frame not included	SQM	1,044.5
082 074-0580	Wood doors,paneled interior,five panel,solid, 35 mm thick,pine,hardware & frame not included	SQM	932.2
083	SPECIAL DOORS		1
083 050 083 054	ACCESS DOORS ACCESS DOORS:		
	Access doors, fire rated, with lock, metal, 300 mm x 300 mm	EA T	y water
SACRONICATION TO THE TOTAL OF	Access doors, fire rated, with lock, metal, 300 mm x 300 mm Access doors, fire rated, with lock, stainless steel, 610 mm x 915 mm	EA	1,250.0
management and the second			2,000.0
	Access doors,fire rated, with lock,stainless steel, 610 mm x 610 mm		1,700.0
083 054-3250	Recessed access door,for acoustic tile,metal, 610 mm x915 mm		2,000.0

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ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
Recessed access door,for drywall,metal, 300 mm x 300 mm	+	1,250.0
SLIDING DOORS:		
GLASS,SLIDING:		
Sliding vinyl clad door, 25 mm insulated glass, 1.8 m 2.4 m	EA	4,725.00
STEEL,SLIDING:		
Steel,manually operated sliding door up to 15 m wide x 5.4 m high,heavy duty,average	SQM	525.0
SECURITY DOORS		
VAULT FRONT:		
Vault front door and frame, 815 mm x 1980 mm, clear opening, 2 hour test, weighs 430 kg, with time clock	EA	5,855.00
Vault front door and frame, 1015 mm x 1980 mm,clear opening, 4 hour test, weighs 517 kg, with time clock	2	8,925.00
Vault front door and frame, 1980mm x 915 mm clear dimension, satin stainless steel finsih, dual control locks, weighs 1135 kg.		15,946.00
Insulated vault door and frame, clear dimensions 1981 mm x 812 mm, painted gray finish, 3 wheel combination lock, weighs 375 kgs.		44,067.0
Insulated vault door and frame, clear dimensions 1981 mm x 1016 mm, painted gray finish, 3 wheel combination lock, weighs 470 kgs.	<u> </u>	63,983.0
COLD STORAGE DOORS		
COLD STORAGE:		
Cold storage door,galvanized steel,horizontal sliding,manual, 1525 mm x 2135 mm x 150 mm	EA	2,625.00
Cold storage door,galvanized steel,horizontal sliding,power operated, 2745 mm x 3050 mm x 150 mm		5,282.00
mm thick		1,365.0
915 mm x 2135 mm x 150 mm thick		1,534.0
mm opening, 100 mm thick for cooler		2,835.00
Cold storage door,galvanized steel,bi-parting,manual operated, 1830 mm x 2440 mm opening,100mm thick for freezer	 	2,835.00
COILING DOORS	an x	a con got
COUNTER DOORS:	1,3000	
Counter doors,galvanized steel or aluminum, 1220 mm high roll-up, 1830 mm long	OPENING	8,505.00
COILING GRILLES	Chine Mile	100
ROLL UP GRILLE:		Maria Maria
Roll up grille steel,manual operated, 4570 mm x 2440 mm high,including aluminium frame.	SQM	12,285.00
SECTIONAL OVERHEAD DOORS	Mal (S)	1 1 14
OVERHEAD,COMMERCIAL:		
Commercial, overhead sectional door, wood, heavy duty, without frame, 45 mm thick, 2440 mm wide x 2440 mm high	EA	5,880.00
Commercial, overhead sectional door, chain hoist, wood, heavy duty, without frame,		
	Recessed access door,for drywall,metal, 300 mm x 300 mm SLIDING DOORS: GLASS,SLIDING: Sliding vinyl clad door, 25 mm insulated glass, 1.8 m 2.4 m STEEL,SLIDING: Steel,manually operated sliding door up to 15 m wide x 5.4 m high,heavy duty,average SECURITY DOORS VAULT FRONT: Vault front door and frame, 815 mm x 1980 mm,clear opening, 2 hour test, weighs 430 kg, with time clock Vault front door and frame, 1015 mm x 1980 mm,clear opening, 4 hour test, weighs 517 kg, with time clock Vault front door and frame, 1980mm x 915 mm clear dimension, satin stainless steel finsih,dual control locks, weighs 1135 kg. Insulated vault door and frame,clear dimensions 1981 mm x 812 mm, painted gray finish, 3 wheel combination lock, weighs 375 kgs. Insulated vault door and frame,clear dimensions 1981 mm x 1016 mm, painted gray finish, 3 wheel combination lock, weighs 470 kgs. COLD STORAGE DOORS COLD STORAGE DOORS COLD STORAGE: Cold storage door,galvanized steel,horizontal sliding,manual, 1525 mm x 2135 mm x 150 mm Cold storage door,galvanized steel,horizontal sliding,power operated, 2745 mm x 3050 mm x 150 mm Cold storage door, stainless steel,hinged,lightweight, 915 mm x 2135 mm x 150 mm thick Cold storage door,galvanized steel,bi-parting,manual operated, 1830 mm x 2440 mm opening, 100 mm thick for cooler Cold storage door,galvanized steel,bi-parting,manual operated, 1830 mm x 2440 mm opening, 100 mm thick for forezer COILING DOORS COUNTER DOORS COUNTER DOORS COUNTER DOORS COUNTER DOORS COUNTER DOORS COUNTER DOORS COILING GRILLES ROLL UP GRILLE: Roll up grille steel,manual operated, 4570 mm x 2440 mm high,including alumininum frame. SECTIONAL OVERHEAD DOORS OVERHEAD,COMMERCIAL: Commercial,overhead sectional door,wood, heavy duty,without frame, 45 mm	Recessed access door, for drywall, metal, 300 mm x 300 mm SLIDING DOORS: GLASS, SLIDING: Sidding vinyl clad door, 25 mm insulated glass, 1.8 m 2.4 m STEEL, SLIDING: Steel, manually operated sliding door up to 15 m wide x 5.4 m high, heavy duty, average SECURITY DOORS VAULT FRONT: Vault front door and frame, 815 mm x 1980 mm, clear opening, 2 hour test, weighs 430 kg, with time clock Vault front door and frame, 1015 mm x 1980 mm, clear opening, 4 hour test, weighs 517 kg, with time clock Vault front door and frame, 1980mm x 915 mm clear dimension, satin stainless steel finsih, dual control locks, weighs 1135 kg. Insulated vault door and frame, clear dimensions 1981 mm x 812 mm, painted gray finish, 3 wheel combination lock, weighs 470 kgs. COLD STORAGE COLD STORAGE DOORS COLD STORAGE DOORS COLD STORAGE LOONS Cold storage door, galvanized steel, horizontal sliding, manual, 1525 mm x 2135 mm x 150 mm x 150 mm Cold storage door, galvanized steel, horizontal sliding, power operated, 2745 mm x 3050 mm x 150 mm Cold storage door, galvanized steel, horizontal sliding, power operated, 2745 mm x 3050 mm x 150 mm Cold storage door, galvanized steel, horizontal sliding, power operated, 2745 mm x 2135 mm x 150 mm Cold storage door, galvanized steel, horizontal sliding, power operated, 2745 mm x 2135 mm x 150 mm Cold storage door, galvanized steel, bi-parting, manual operated, 1830 mm x 2440 mm opening, 100 mm thick for cooler Cold storage door, galvanized steel, bi-parting, manual operated, 1830 mm x 2440 mm opening, 100 mm thick for cooler COILING GRILLES ROLL UP GRILLE: Roll up grille steel, manual operated, 4570 mm x 2440 mm high, including SCM SECTIONAL OVERHEAD DOORS OVERHEAD, COMMERCIAL: Commercial, overhead sectional door, wood, heavy duty, without frame, 45 mm

001			0007.555
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
083 604-1400	Commercial, overhead sectional door, chain hoist, wood, heavy duty, without frame, 45 mm thick, 2745 mm wide x 2135 mm high		16,800.0
083 604-1500	Commercial, overhead sectional door, chain hoist, wood, heavy duty, without frame, 45 mm thick, 6095 mm wide x 2440 mm high		3,690.7
083 604-2300	Commercial, overhead sectional door, fiberglass & aluminum, heavy duty, without frame, 45 mm x 3660 mm		12,170.0
083 604-2600	Commercial, overhead sectional door, steel 24 ga, manual, without frame 2440 mm x 2440 mm		4,900.0
083 604-2650	Commercial, overhead sectional door, steel 24 ga, manual, without frame 3050 mm x 3050 mm		6,250.0
083 604-2900	Electric trolly operator, 250W, overhead sectional doors upto 3.6 m x 3.6 m	*	4,882.5
083 606	RESIDENTIAL GARAGE DOORS:		
083 606-0500	Residential garage doors including hardware,no frame,overhead, sectional,hardboard, 2745 mm x 2135 mm	EA	6,331.00
083 606-0800	Residential garage doors including hardware,no frame,overhead, sectional,metal, 4875 mm x 2135 mm		6,325.00
083 606-4000	Residentail sectional garage door,including hardware,no frame,wood ,custom double 2475 mm x 2135 mm, with remote control		7,875.00
083 606-4100	Residentail sectional garage door,including hardware,no frame,wood ,custom double 4875 mm x 2135 mm, with remote control	.	7,854.0
083 700	HANGAR DOORS		
083 701	HANGAR DOOR:		
083 701-0100	Hangar door bi-fold,overhead, 20 kg/m2 wind load,including electrical operation without sheeting, 3660 mm high x 12 m	SQM	276.00
083 720	SPECIAL PURPOSE DOORS		
083 722	AIR CURTAINS:		
083 722-1500	Air curtains, customer entrance door, unheated, including motor starter, transformer, door switch or temperature control for minimal wind stoppage, 3 m high, multiples of 0.9 m wide	LM	1,171.00
083 722-1600	Air curtains, customer entrance door, unheated, including motor starter, transformer, door switch or temperature control for minimal wind stoppage, 3 m high, multiples of 1.53 m wide		1,530.00
083 722-1700	Air curtains, customer entrance door, unheated, including motor starter, transformer, door switch or temperature control for minimal wind stoppage, 3 m high, multiples of 1.53 m wide		1,530.00
083 722-1800	Air curtains, customer entrance door, unheated, including motor starter, transformer, door switch or temperature control for minimal wind stoppage, 3 m high, multiples of 1.80 m wide	1	2,342.00
083 732	ROLLING SERVICE DOORS:		
083 732-0010	Rolling service doors steel,manual, 20 ga., 3050 mm x 3050 mm high,standard	EA	2,575.00
083 732-2000	Rolling service doors steel, 3 hours fire rated,manual, 20 ga., 2440 mm x 2440 mm high	EA	21,625.0
083 732-2500	Rolling service doors steel, 3 hours fire rated,manual, 20 ga., 4265 mm x 4265 mm high	EA	34,800.0
083 732-2510	Rolling service doors galvanized steel, motor operated, 1220 mm x 1830 mm		1,975.0
083 732-2520	Rolling service doors, galvanized steel frame, 2 mm thick tear-resistant woven polyester monfilament panel, 1.2 m x 1.2 m, motor operated		2,535.0
	Rolling service doors, stainless steel frame, 2 mm thick tear-resistant woven		
083 732-2530	polyester monfilament panel, 2 m x 2 m, motor operated		9,901.00

CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
083 732-2550	Rolling service doors, anodized aluminium frame, 2 mm thick tear-resistant woven polyester monfilament panel, 3 m x 3 m, motor operated		5,176.00
083 732-2560	Rolling service doors, anodized aluminium frame, 2 mm thick tear-resistant woven polyester monfilament panel, 3 m x 3 m, motor operated with balancing mechanism		12,567.00
083 732-2570	Rolling service doors, anodized aluminium frame, 2.5 mm thick tear-resistant woven polyester monfilament panel, 7 m x 5 m, motor operated with balancing mechanism		25,142.00
083 732-2580	Rolling service doors, anodized aluminium frame, PVC coated polyster fabric with a weight of 700 g/m2 panel, 8 m x 5 m, motor operated	+	27,846.00
083 750	SWING DOORS		
083 752	DOUBLE ACTING:		
083 752-2050	Double acting swing door, 20 mm thick solid core wood, with metal frame & stainless steel base plate, 2.1 m high & 2.1 m wide	PAIR	17,000.00
083 800	SOUND RETARDANT DOORS		
083 804	ACOUSTICAL:		
083 804-0300	Acoustical steel door, 48 sound transmission coefficient rating including framed seals, 915 mm x 2135 mm high	EA	998.0
084	ENTRANCE & STOREFRONTS		
084 100	ALUMINUM		- 1 - 4 k
084 103	BALANCED DOORS:		A
084 103-0010	Balanced doors,hardware & frame,aluminum & glass, 0.9 x 2 m,average	EA	2,640.0
084 105	STOREFRONT SYSTEMS:		
084 105-1000	Storefront systems, Aluminium frame, 10 mm plate glass, including 1800 mm x 2135 mm door with hardware, wall height to 3660 mm, commercial grade	SET	5,467.0
084 300	STAINLESS STEEL		
084 301	STAINLESS STEEL AND GLASS:		
084 301-0020	Stainless steel and glass entrance unit, narrow stiles 915 mm x 2135 mm opening including hardware average	EA	12,048.0
084 600	AUTOMATIC DOORS		
084 602	SLIDING ENTRANCE:		Martha E
084 602-0020	Aluminum framing Sliding entrance 3.7 m x 2.3 m,including 1.5 x 2.1m door, 2 way mat activated,panic pushout,including operator & hardware,glazing	EA	17,700.0
084 604	SLIDING PANEL:		
084 604-0010	Sliding panel mall fronts, aluminum & glass, 4.5 m x 2.75 m heigh, photocell	SQM	19,500.0
084 700	REVOLVING DOORS		
084 701	REVOLVING DOORS:		
	Revolving doors aluminum, 2 m diameter, 2.1 m high,average	EA	80,000.0
	Revolving doors stainless steel,up to 2.1 m diameter, 2.1 m, high,average		70,000.0
084 701-1500	controls, average	1	80,000.0
085	METAL WINDOWS		- 4"
085 100	STEEL WINDOWS		

CSI	3		COST PER
CODE	ITEM DESCRIPTION	UNIT	UNIT (SR)
085 102	STEEL SASH:		
085 102-1500	Steel sash, industrial, fixed, including 6 mm glazing & trim, horizontally pivoted	SQM	788.00
085 102-2500	Steel picture window including 6 mm glazing & trim	SQM	483.00
085 104	STEEL WINDOWS:		
085 104-1500	Commercial projected steel window including frame,trim & insulated glazing	SQM	1,312.00
085 200	ALUMINUM WINDOWS		30/9011-045-
085 202	ALUMINUM SASH:		
085 202-0150	Fixed aluminum window sash,including 6 mm glazing & trim (1000 mm x 1200 mm)	EA	670 00
085 204	ALUMINUM WINDOWS:		
085 204-1000	Aluminum windows including frame and 17 mm glazing, casement type, including screen (600 x 1200 mm)	EA	670.00
085 204-1600	screen, stain finish; (600 x 600 mm)		527.00
085 204-1700	with screen, bronze finish (600 x 600 mm)		544.00
085 204-1800	Aluminum windows including frame and 21 mm glazing,projected with screen, powder coated (600 x 600 mm)		527.00
085 204-3890	25 mm insulating glass & screen (600 x 600 mm)		527.00
085 204-3910	Aluminum windows including frame and glazing, awning type, bronze finish, with standard 6 mm glass & screen (600 x 600 mm)		479.00
085 204-3930	Aluminum windows including frame and glazing,awning type, enameled,with standard 6 mm glass & screen (600 x 600 mm)		539.00
085 204-4000	Aluminum windows including frame and glazing, sliding, 17 mm insulating glass; (1500 x 1000 mm)		1,170.00
085 204-4300	Aluminum windows including frame and glazing, sliding, standard 6 mm glass;		1,187.00
085 204-5000	Aluminum windows including frame and glazing, sliding aluminum, powder coated, 17 mm insulating glass;	+	1,278.00
085 700	SCREENS		
085 701	SCREENS:		
085 701-0800	Screens ,security screen, aluminum frame with stainless steel cloth	SQM	212.00
086 086 100	WOOD & PLASTIC WINDOWS WOOD WINDOWS		
086 104	AWNING WINDOW:	######################################	*
086 104-1000	Awning window wood, vinyl clad, 21 mm insulating glass, including frame, screen & trim, less than 1 m2n window	SQM	4.700.00
086 104-2000	Awning window wood,metal clad, 21 mm insulating glass,including frame,screen & trim, more than 1 m2 window	SQM	1.785 00
086 120	CASEMENT WINDOW:		996 00
086 120-0200	Casement window including frame, screen, and exterior trim, wood 610 mm x 1370 mm, standard 6 mm glazing & hardware mechanism.	EA	1,050.00
086 120-1120	Casement window, vinyl clad including frame, screen, exterior trim, 17 mm insulating glass, 900 mm x 1.8 m high & hardware mechanizm	EA	1,758.00
086 124	DOUBLE HUNG:		-47.500.300
	Double hung,wood vinyl clad,including frame,screen, exterior trim, 17 mm		

DIVISION	8: DOORS & WINDOWS		
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
086 132 PIC	TURE WINDOW:		
086 132-0100 Pictu	ure window including frame and exterior trim, wood, 6 mm glazing	SQM	604.00
086 140 SLI	DING WINDOW:		
086 140-0100 Slidir glazi	ing window including frame,screen,and exterior trim,wood, standard 6 mm ing	EA	604.00
086 152 WO	OOD SCREENS:		
086 152-0100 Woo	od screen, 30 mm frames over 0.25 M2	SQ.M	87.00
	ARDWARE		
	NISH HARDWARE		
	DLTS,FLUSH:	model - k once	
TENTEN MANUEL TENTES	A STATE OF THE STA	EA	310.00
	s,flush,standard,concealed s,flush,automatic fire exit		2,709.00
	s,flush,for eletric release, add	+	1,768.00
I MARKE SHIPS HOLD WATER ST.	MPER PLATES:	· · · · · · · · · · · · · · · · · · ·	
	pper plates, 40 mm x 20 mm, U channel	EA	29.00
	pper plates, 40 mm x 20 mm, 6 chambs	EA	236.00
	ADLOCKS:		
	dlocks,mortise,outside key	EA	209.00
	dlocks,mortise,tubular,standard duty,outside key	EA	150.00
Lance Commission	ORSTOPS:	1	
PER PER PER	r stop,holder & bumper,floor or wall	EA	36.00
087 110-1300 Door			10.00
	r stop,floor bumper		18.00
087 110-1900 Door	r stop,plunger type door mounted	+	10.00
087 112 EN	TRANCE LOCKS:		
087 112-0020 Entr	rance locks,cylinder,grip handle,deadbolt	EA	372.00
087 114 FLC	OOR CHECKS:		
Carried and Control of the Control o	or checks, for over 915 mm wide doors, single acting	EA	1,633.00
Marting in the contrast and the second second	or checks, for over 915 mm wide doors, double acting	EA	1,226.00
087 116 HIN	NGES:		
	ges,full mortise,average frequency,steel base,non removable pin, 127 mm x	PAIR	269.00
150	ges,full mortise,average frequency,steel base,non removable pin, 150 mm x mm	1-1-	50.00
150	ges,full mortise,average frequency,bronze base,non removable pin, 150 mm x mm		110.00
	ges,full mortise,average frequency,stainless steel base,non removable pin, 150 x 150 mm		185.00
087 116-0920 Hing	ges,full mortise,average frequency,steel base,floating pin, 150 mm x 150 mm	-	100.00
067 116-0930 mm			93.00
	ges,full mortise,average frequency,stainless steel base,floating pin,150 mm x		165.00

CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
	Hinges,full mortise,average frequency,brass base plate,		(3h)
087 116-0980	150 mm x 150 mm,hospital grade,tip on pin type		583.0
087 116-1100	Hinges,full mortise,high frequency,steel base,non removable pin, 127 mm x 127 mm		370.0
087 118	KICK PLATE:	1 <u> </u>	370.0
087 118-0010	Kick plate, 150 mm high, for 915 mm door, stainless steel or bronze	EA	1,009.0
087 120	LOCKSET:		.,,000.0
087 120-0020	Lockset ,standard duty,cylindrical with sectional trim,non-keyed	I EA I	568.0
	Lockset ,heavy duty,cylindrical with sectional trim,non-keyed		430.0
087 120-0420	Lockeet standard duty cylindrical with sectional trim bound single cylinder function		240.0
087 120-1420	Lockset heavy duty,cylindrical,with sectional trim,keyed,single cylinder function hotel style		140.0
087 120-1700	Lockset standard duty, cylindrical for residential, interior door, average		734.0
087 120-1800	Lockset standard duty,cylindrical for residential,exterior door, average		235.0
087 125	MORTISE LOCKSET:)	
087 125-0100	Mortise lockset,wrought knobs & full escutcheon trim,keyed,office/apartment entrancet,average	EA	846.0
087 125-0200	Mortise lockset,wrought knobs & full escutcheon trim,hotel,average		848.0
087 125-1000	Mortise Lockset, wrought knobs and sectional trim, non- keyed, entrance, office/apartment average	+	5.00
087 125-2210	Mortise Lockset,cast knobs and full escutcheon trim,non-keyed,single cylinder,hotel average	EA	10.00
087 127	PANIC DEVICE:		
087 127-0200	Panic device, for rim locks, bar and vertical rod, exit only	EA	1,822.00
087 127-1000	Panic device, for mortise locks, bar, exit only	EA	2,025.00
087 129	PUSH - PULL:	Alteria	
087 129-0010	Push-plate,pull plate,aluminum	EA	26.00
087 129-0500	Push-plate,pull plate,bronze		68.00
087 129-6000	Door pull,cast bronze,average	•	66.00
087 132	SPECIAL HINGES:		
087 132-1000	Electric hinges with concealed conductor, average frequency, steel base, 114 mm x 114 mm	PAIR	45.00
087 132-1100	Electric hinges with concealed conductor, average frequency, bronze base, 114 mm x 114 mm	1	38.00
087 132-1210	Electric hinges with concealed conductor, high frequency, steel base, 114 mm x 114 mm	PAIR	530.00
	Spring hinge, single acting, 150 mm flange, steel		165.00
087 132-4700	Spring hinge,single acting, 150 mm flange,brass	+	1,226.00
087 200	OPERATORS		
087 202	AUTOMATIC OPENERS:		.4
087 202-1000	Automatic openers, sliding doors, 915 mm wide, including track & hanger, single	EA	10,041.00
187 204	AUTOMATIC OPERATORS:		

חאופוס	N 8: DOORS & WINDOWS		
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
087 206	DOOR CLOSER:		
087 206-0020	Door closer,rack and pinion,adjustable backcheck,all sizes, hold open arm	EA	360.0
	Door closer,rack and pinion,adjustable backcheck,all sizes,fusible link	EA	510.0
087 300	WEATHERSTRIPPING/SEALS		
087 302	ASTRAGALS:		
087 302-0600	Astragals, one piece overlapping, cadmium plated steel or aluminum, flat, 3 mm x 75 mm	LM	22.0
087 302-1300	Astragals, one piece overlapping, Aluminun, vinyl bulb insert, 3 mm x 50 mm		21.0
087 302-2800	Astragals, one piece overlapping, Neoprene sponge strip, "Z" shaped, aluminum		24.0
087 302-4000	Astragals, one piece stile protection, extruded aluminum retainer, flush mount, pile insert		18.0
087 304	THRESHOLD:		10.0
087 304-0010	Threshold 915 mm long door saddles,aluminum	EA	37.0
Personal Property Company of the Company	Threshold 915 mm long door saddles,bronze		62.0
087 304-0700	Threshold 915 mm long door saddles,rubber	•	70.0
087 306	WEATHERSTRIPPING:		
087 306-1000	Weatherstripping,doors,wood frame,interlocking,zinc	LM	10.0
087 306-1100	Weatherstripping, doors, wood frame, interlocking, bronze	LM	10.0
087 500	DOOR/WINDOW ACCES.		
087 501	WINDOW GRATING:		
087 501-0100	Steel window security grating anchored to walls, @7 kg/m2.welded & painted, average	SQM	236.25
088	GLAZING		
088 100	GLASS		
088 108	BEVELED GLASS:		
088 108-0010	Beveled glass design patterns,6mm thick, 13 mm bevel,average (straight)	SQM	13.00
088 118	CLEAR FLOAT GLASS:		
088 118-0700	Single clear float glass, 6 mm thick, annealed	SQM	75.00
088 118-0710	Single clear float glass, 6 mm thick, tempered		82.00
088 118-0720	Single clear float glass, 8 mm thick, annealed		96.00
088 118-0730	Single clear float glass, 8 mm thick, tempered	+	105.00
	Single clear float glass,10 mm thick, annealed	SQM	124.00
A PROTECTION OF THE PARTY OF TH	Single clear float glass,10 mm thick, tempered		152.00
	Single clear float glass,12 mm thick, annealed	711	150.00
	Single clear float glass,12 mm thick, tempered	+	179.00
088 120	TINTED CLEAR FLOAT GLASS:	166	
88 120-0010	Single tinted float glass, 6 mm thick, bronze/grey,annealed	SQM	102.00
88 120-0020	Single tinted float glass, 6 mm thick, bronze/grey, tempered		110.00
88 120-0030	Single tinted float glass, 6 mm thick, blue, annealed		116.00
88 120-0040	Single tinted float glass, 6 mm thick, blue, tempered		124.00
88 120-0050	Single tinted float glass, 6 mm thick, evergreen, annealed		130.00
White Wash but and page 1	Single tinted float glass, 6 mm thick, evergreen, tempered		

DIVISIO	N 8: DOORS & WINDOWS		
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
088 120-0070	Single tinted float glass, 10 mm thick, bronzew/grey, annealed		167.00
088 120-0080	Single tinted float glass, 10 mm thick, bronzew/grey, tempered		225.00
088 120-0090	Single tinted float glass, 12 mm thick, bronzew/grey, annealed		206.00
088 120-0100	Single tinted float glass, 12 mm thick, bronzew/grey, tempered	*	299.00
088 132	INSULATING GLASS:		
088 132-0020	Insulating glass, 12 mm thick clear,tempered	SQM	152.00
088 132-0100	Insulating glass, 12 mm thick, tinted, clear (annealed)		189.00
088 132-0400	Insulating glass, 6/10/6 mm thick,double glazed,on blue ,tempered & clear annealed		217.00
088 132-0410	Insulating glass, 6/10/6 mm thick,double glazed,on gray ,tempered & clear annealed		203.00
088 132-0420	Insulating glass, 24 mm thick,double glazed,6mm float,clear (6/12/6)		167.00
088 132-0500	Insulating glass, 24 mm thick,double glazed,6mm float, tinted, tempered (6/12/6)		188.00
088 132-0600	Insulating glass, 25 mm thick double glazed,6mm float, 6 mm wire (6/12/6.8)		375.00
			360.00
page Artifaction page and	Insulating glass, heat reflective, film inside, 25 mm thick, unit, clear tempered		380.00
088 136	LAMINATED GLASS:		360.00
	Laminted glass, clear float, 0.76 mm vinyl,6mm thick (6 + .76)	SQM	151.00
088 136-0100	Laminted glass, clear float, 0.76 mm vinyl,10mm thick (10+.76)		193.00
CAMPLE OF BASES OF BUILDING	Laminted glass, bullet-resisting, 30 mm thick (Resin cast int.)		760.00
	Laminted glass, bullet-resisting, 55 mm thick (Resin cast int.)		1,430.00
088 144	MIRRORS:		1,400.00
		SQM	95.00
	Mirrors,float glass 6 mm thick one way transparent	I	
088 148	OBSCURE GLASS:		262.00
	Obscure glass, 6 mm thick,average, clear, annealed	SQM	80.00
	Obscure glass, 6 mm thick, average, clear, annealed Obscure glass, 6 mm thick, average, clear, tempered	JOIN	80.00
			85 00
	Obscure glass, 6 mm thick,average, bronze, annealed		89 00
	Obscure glass, 6 mm thick,average, bronze, tempered		105.00
088 160	Obscure glass,16 mm thick, louvered, average OBSCURE GLASS:		92.00
		SQM	
	Pyrolytic reflective glass, 6 mm thick, clear reflective, annealed		63.00
	Pyrolytic reflective glass, 6 mm thick, clear reflective, tempered	SQM	143.85
	Pyrolytic reflective glass, 6 mm thick, bronze reflective, annealed		0
	Pyrolytic reflective glass, 6 mm thick, bronze reflective, tempered		0
2-17 ACLS	Reflective glass 6mm float with fused metallic oxide, tinted	•	168 00
088 160	PYROLYTIC REFLECTIVE GLASS (SEMI REFLECTIVE)	2014	
	Wired glass, 6mm thick georgian pol. clear, annealed	SQM	265.00
	Wired glass, 6mm thick bronze, annealed	SQM	63.00
088 162	WIRED GLASS:		
088 164	SANDBLASTED GLASS:		11
	Sandblasted plate glass, 6 mm thick, clear annealed - full sandblast	SQM	175.00
088 164-0600	Sandblasted plate glass, 10 mm thick, clear annealed-full sandblast	SQM	224.00

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DIVISIO	N 8: DOORS & WINDOWS		
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
088 168	SHEET GLASS:		
088 168-0200	Sheet Glass gray, 6 mm thick, annealed	SQM	73.00
088 172	SPANDREL GLASS:		
088 172-0010	Spandrel glass, clear tempered, enamelled, 6 mm thick	SQM	142.00
088 172-0300	Spandrel glass, bronze/grey tempered, enamelled, 6 mm thick		170.00
Constitution of the contract o	Spandrel glass, clear tempered, enamelled, 10 mm thick		212.00
088 172-0400	Spandrel glass, bronze/grey tempered, enamelled, 10 mm thick	1	275.00
088 400	PLASTIC GLAZING		
088 404	PLEXIGLASS ACRYLIC:		
088 404-0500	Plexiglass Acrylic,clear,masked, 6 mm thick,cut sheets	SQM	147.00
088 404-0900	Plexiglass Acrylic,clear,masked, 10 mm thick,cut sheets		292.00
088 404-1700	Plexiglass Acrylic,clear,masked, 20 mm thick,cut sheets	•	525.00
088 408	POLYCARBONATE:		
088 408-1500	Polycarbonate clear,masked,cut sheets, 10 mm thick	SQM	337.00
089	GLAZED CURTAIN WALL		
089 200	GLAZED CURTAIN WALL		
089 202	CURTAIN WALLS:		
089 202-0050	Curtain walls, Aluminum, single glazed, average	SQM	450.00
089 202-0150	Curtain walls, Aluminum, double glazed, average		650.00
089 202-0200	Curtain walls, Aluminum, single glazed, curved, average	+	961.00
089 204	TUBE FRAMING:		
089 204-0050	Tube framing,for window walls and store fronts,aluminum plain tube frame, mill finish, 45 mm x 45 mm	LM	634.00
089 204-0150	Tube framing,for window walls and store fronts,aluminum plain tube frame, mill finish, 45 mm x 100 mm		717.00
089 204-0250	Tube framing,for window walls and store fronts,aluminum plain tube frame, mill finish, 50 mm x 150 mm		935.00
089 204-2000	Tube framing,flush tube frame, mill finish, for glass, 50 mm x 115 mm	₩ .	773.00
089 206	WINDOW WALLS:		W 20
089 206-0050	Window walls, aluminum, including glazing average	SQM	1,062.00
089 206-0100	Accoustical window wall, aluminum, double glazed 25 mm thick, 50 mm x 150 mm framing for airports	SQM	1,125.00



الهدف:

- 100

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اللتحكم بالروقات التحكم بالجوردة التحكم بالتكلفة

مدارة المشاريخ حرحلة با قبل التصميم مرحلة التمدين مرحلة الاساء

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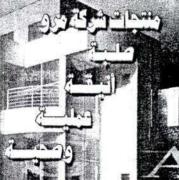
Division 9 Finishing

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SURFACES FOR THE NEW MILLENNIUM

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خدم یے: اخارجیه ASST(

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من تقنيات الفضاء تستخدم في التكسيات الداخلية والخارجية التطبيقات الحارية المراحة المر

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e-mail: sale@murostone.com www.murostone.com

+ 966 1 4911028

ص.ب ١٨٨١لرياض ١١٤١١- الملكة العربية السعودية *** P.O.Box 2889 Rivadh 11461- K.S.A

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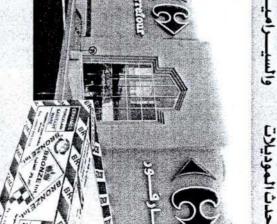
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مناميم ميهره ومننوم همن البورسطين والسيراميك

> ج ودة نوق سا





السعودية ، الامارت ، ثبنان ، غرب أفريقيا ، اليمن من به ١٩٩٩ الرياض ١٩٥١ الملكة العربية السعودية من ١٩٩٠ الرياض ١٩٥١ الملكة العربية السعودية عاتف ، ١٩٢٧ ١ ١٦٠ + فاكسس ١٦٠ ١ ١٢٠ + فرع جدة – هاتف ، ١٨١١ ١٦٢ ١ ١٦٠ + / ١٩١٦ ١٢٢ ١٢٠ + بدا فرع جدة – هاتف ، ١٨١١ ١٢٢ ١٢٠ + / ١٢٠ ١٢٠ ١٢٠ + فرع جدة أنساء الملكة المساورة الملكة المساورة الملكة المساورة الملكة المساورة الملكة المساورة الملكة المل

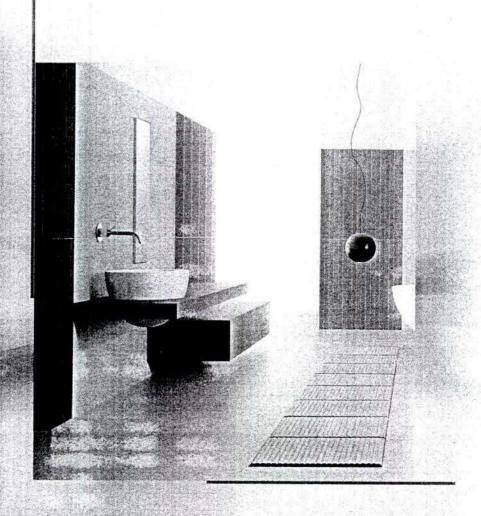
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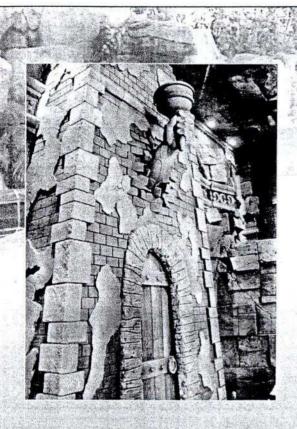


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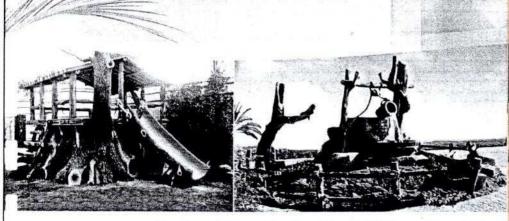




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DARIO	NEO9: FINISHES	企图 处理	1200)
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
091	METAL SUPPORT SYSTEM		
091 300	SUSPENSION SYSTEMS		ASSESSED TO LEAST OF THE PARTY
091 304	SUSPENSION SYSTEMS:		
091 304-0050	Suspension systems for boards and tile,T bar, 610 mm x 1220 mm grid	LM	15.4
091 304-0300	Suspension systems for boards and tile, suspension system, T bar, 610 mm x 610 mm grid	SQM	13.1
091 304-0400	Suspension systems for boards and tile, concealed Z bar, 300 mm module		10.2
091 304-0600	Suspension systems for boards and tile, 38 mm carrier channels, 0.9 mm	LM	1.9
091 304-1040	Hanging wire, 12 ga.	KG	0.5
092	LATH, PLASTER & GYPSUM BOARD		
092 050	FURRING & LATHING		
092 052	ACCESSORIES,PLASTER:		
092 052-0010	Accessories plaster, casing bead, expanded flange, galvanized	LM	1.2
092 052-0100	Accessories plaster, casing bead, expanded flange, zinc alloy		1.7
092 052-0620	Accessories plaster,corner bead,expanded bullnose, 20 mm radius,galvanized		2.7
092 052-1640	Accessories plaster,corner bead,expanded bullnose, 20 mm radius,zinc alloy		1.8
092 052-1700	Accessories plaster,inside corner bead, 20 mm, 76 mm x 76 mm,painted	+	1.3
092 054	FURRING:		
092 054-0600	Furring 35 mm channels,galvanized	LM	2.3
092 054-0700	Furring 50 mm channels,galvanized	ж	2.6
92 056	GYPSUM LATH:		
092 056-0010	Gypsum lath, plain or perforated, 10 mm thick x 3000 mm	SQ.M	7.8
	Gypsum lath, plain or perforated, 13 mm thick	,,	8.79
092 058	METAL LATH:		
	Metal lath,diamond,expanded 1.36 kg/m2, painted	SQM	9.00
	Metal lath,diamond,expanded 1.36 kg/m2, galvanized		5.1
	Metal lath,diamond,expanded 1.85 kg/m2, galvanized.		10.0
	Metal lath,flat rib, 3 mm high,1.25 kg painted		6.00
The second second second	Metal lath,flat rib, 3 mm high, 1.25 kg foil backed		42.00
	Metal lath,flat rib, 3 mm high, 1.85 kg/m2 galvanized		27.30
	Metal lath,high rib, 10 mm, 1.85 kg/m2, galvanized		19.2
	Metal lath, high rib, 19 mm, 2.93 kg/m2, painted		17.8
	Metal lath,high rib, 19 mm, 3.66 kg/m2, painted		29.55
	Metal lath mesh, painted 0.82 kg		6.60
	Metal lath mesh,painted 1.63 kg		9.76
	Metal lath, 1.54 kg diamond painted		9.13
	Metal lath,rib lath,painted,1.25 kg		5.78
	Metal lath,rib lath,painted, 1.81 kg	*]	9.45
92 100	GYPSUM PLASTER		

DADION.	09: FINISHES		i i i i i i i i i i i i i i i i i i i
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
092 102-0010 Rea	ady mix cement plaster in 25 kg bags	BAG	28.0
	PSUM PLASTER:		
	ady mix gypsum plaster,in 25 kg bags	BAG	16.0
	RLITE OR VERMICULITE PLASTER:		
092 600 GY	YPSUM BOARD SYSTEMS		
092 608 DF	RYWALL:		
092 608-0150 Dry	wall,gypsum plasterboard, 9.5 mm thick, standard	SQM	3.9
092 608-0300 Dry	wall,gypsum plasterboard, 12.5 mm thick,standard		8.6
092 608-2000 Dry	wall,gypsum plasterboard, 15 mm thick,standard		9.
092 608-3000 Dry	wall,gypsum plasterboard, 15 mm thick,fire resistant		10.3
092 608-3550 Dry	wall,gypsum plasterboard, 15 mm thick,water resistant		13.
092 608-3560 Dry	wall,gypsum plasterboard, 18 mm thick,standard	31	13.0
092 608-3570 Dryv	wall,gypsum plasterboard, 18 mm thick,fire resistant		13.9
092 608-3580 Dryv	wall,gypsum plasterboard, 18 mm thick,water resistant		18.0
092 608-4300 Dryv	wall,gypsum plasterboard, 18 mm thick fire & water resistant		19.
092 608-5050 Dry	wall, 25 mm thick coreboard	1	. 15.
092 608-5600 Dryv	wall,sound deadening board, 6 mm gypsum		4.
092 608-5650 Dryv	wall,sound deadening board, 13 mm wood fiber		7.3
092 608-5700 Dryv	wall, cement board, 6mm wood fiber		18.3
092 608-5800 Dryv	wall, cement boar, 9mm wood fiber		27.5
092 608-5900 Dryv	wall, cement board, 12mm wood fiber	+	35.
The second secon	TAL STUDS,DRYWALL:		
	al studs,drywall,non-load bearing,galvanized 25 ga., 63 mm wide	LM	2.4
	al studs,drywall,non-load bearing,galvanized 25 ga., 92 mm wide		3.0
	al studs;drywall,non-load bearing,galvanized 25 ga., 100 mm wide		3.2
Concernment of the control of the co	al studs,drywall,non-load bearing,galvanized 25 ga., 150 mm wide		4.2
092 612-2600 Meta	al studs,drywall,non-load bearing,galvanized 20 ga.		4.3
092 612-2900 Meta	al studs,drywall,non-load bearing,galvanized 20 ga., 100 mm wide		5.4
092 612-3000 Meta	al studs,drywall,non-load bearing,galvanized 20 ga., 150 mm wide		7.2
	d bearing metal studs, structural, galvanized, 18 ga., 63 mm wide		6.3
	d bearing metal studs,structural,galvanized,18 ga., 92 mm wide		7.5
	d bearing metal studs,structural,galvanized, 18 ga., 100 mm,wide		7.9
ASSOCIATION OF THE PROPERTY OF	d bearing metal studs,structural,galvanized, 18 ga., 150 mm,wide		10.2
	bearing metal studs,structural,galvanized,16 ga., 64 mm, wide		7.9
	bearing metal studs, structural, galvanized, 16 ga., 150 mm, wide		
	RTITION WALL:		12.7
092 620-1600 Inter	rior partition wall, 3.7m high,including metal studs, NLB, 25 ga., at 400 O.C., 90 wide, 13 mm,standard,gypsum drywall both sides, taped & finished	SQM	35.8
	rior partition wall, 2.4 m high,including metal studs, NLB, 25 ga., at 400 O.C., mm wide, 2 layers of 13 mm, water resistant gypsum drywall both sides, taped & hed		61.8

DIVISION	09: FINISHES		
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
092 620-3800 150	rior partition wall, 3.7 m high,including metal studs, NLB, 25 ga., at 400 O.C., mm wide, 2 layers of 16 mm,fire resistant or water resistant gypsum drywall 2 hr. ng both sides, taped & finished		60.1
093 TI	ILE) Se
093 100 CE	ERAMIC TILE		
093 102 CE	ERAMIC TILES & SHEETS:		
093 102-5400 Cera	amic tile 100 x 100 mm glazed	SQM	41.00
	amic tile 150 x 150 mm glazed		28.00
	amic tile 200 x 200 mm glazed		26.00
	amic tile 300 x 300 mm glazed		29.00
	amic tile 100 x 100 mm unglazed		41.00
	amic tile 150 x 150 mm unglazed	SQM	34.00
	amic tile 200 x 200 mm unglazed		26.00
	amic tile 300 x 300 mm unglazed		29.00
	amic tile 400 x 400 mm unglazed		30.00
	amic tile, bullnose,100 mm	LM	16.80
	amic tile, bullnose,150 mm	i i	16.80
Account for Indicational Control Control	amic base tile 100 mm		33.00
	amic cove tile 100 mm		35.00
	amic cove tile 150 mm		23.00
	ASS MOSAICS		25.00
	ASS MOSAICS:	-	10
Consideration and the Constitution of the Cons	ss mosaics 20 mm tile	SQM	199.00
093 501-0700 Glas	ss mosaics 20 mm tile,color golds,silvers & specialties	916	1,417.00
	TAL TILE	202	1,417.00
	TAL TILE:	***************************************	
	al tile 1220 x 1220 mm sheet, 24 ga.,tile pattern,stainless steel	SQ,.M	570.00
	al tile 1220 x 1220 mm sheet, 24 ga., tile pattern,aluminized steel	,,	301.00
	ERRAZZO		
Salver and the second s	ORTLAND CEMENT TERRAZZO		
	RECAST TERRAZZO		
NEWSTRAND PROCESSOR	RRAZZO,PRECAST:		
The state of the s	azzo,precast,base, 150 mm high,straight	114	20 14 2
	azzo,precast,base, 150 mm high	LM	8.50
		LM	- 11.55
and the control of th	azzo,floor tiles,non-slip 25m m thick, 200 x 200 mm azzo,floor tiles,non-slip 30 mm thick, 300 x 300 mm	SQM	14.70
	azzo,floor tiles,non-slip 30 mm thick, 300 x 300 mm azzo,floor tiles,non-slip 30 mm thick, 400 x 400 mm		17.85
			34.00
	azzo,floor tiles,non-slip 40 mm thick, 400 x 400 mm	Y	30.00
Terra	azzo stair tread 40 mm thick, 300 mm wide with nosing, 1.2 m long	LM	66.00
094 201-30001	azzo stair tread & riser single piece,straight tread 300 mm,riser 160 mm, 1.2 m with nosing	LM	85.00

Party Control

DIVISIO	N 09: FINISHES		
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
005	ACOUSTICAL TREATMENT & WOOD		
095	FLOORING		
095 100	ACOUSTICAL CEILINGS		
095 102	CEILING TILE:		
095 102-0600		SQM	17.8
CARLON CONTRACTOR	Ceiling tile,mineral fiber,vinyl coated 19 mm thick, 610 mm x 610 mm		33.0
095 102-0750	Ceiling tile,mineral fiber,vinyl coated 20 mm thick, 300 mm x 600 mm		23.0
095 102-0760			27.0
095 102-0900	Ceiling tile,mineral fiber, 19 mm thick,plain faced,fire rated		35.0
095 102-1000	Ceiling tile,mineral fiber, 20 mm thick,plastic coated faced,fire rated		36.0
095 102-1200	Ceiling tile,mineral fiber,aluminum faced 20 mm thick, 610 mm x 610 mm		43.0
095 102-1300	Ceiling tile, cement wood fiber, paint coated, 3.2mm thick, 603 x 603mm	+	21.6
095 104	SUSPENDED ACOUSTIC CEILING BOARDS:		
095 104-0400	Suspended Acoustic Ceiling Boards, fiberglass board, randum fissured 610 x610 mm or 610 x 1220 mm, 25 mm thick	SQM	25.0
095 104-0500	Suspended Acoustic Ceiling Boards, fiberglass board, film faced 610 x 610 mm or 610 x 1220 mm, 76 mm thick, thermal, 1.9 m2 K/W	SQM	35.0
095 104-0600	Suspended Acoustic Ceiling Boards, glass cloth faced fiberglass, 20 mm thick		45.0
095 104-0820	Suspended Acoustic Ceiling Boards, glass cloth faced fiberglass, 38 mm thick, nubby face		60.0
095 104-0930	Suspended Acoustic Ceiling Boards, mineral fiber boards, 15 mm thick, aluminum faced 610 mm x1220 mm		53.0
095 104-1000	Suspended Acoustic Ceiling Boards, mineral fiber boards, 16 mm thick, plastic coated face 610 mm x 1220 mm		17.8
095 104-1200	Suspended Acoustic Ceiling Boards,mineral fiber, 2 hour rating, 16 mm thick		25.2
095 104-1300	mm		161.0
095 104-2100	Suspended Acoustic Ceiling Boards,polystyrene eggcrate,10 mm x 10 mm x 13 mm cubes		32.0
095 104-2400			45.0
095 104-3600	corrugated,painted		47.0
095 104-3700	Suspended Acoustic Ceiling Boards,perforated aluminum sheets, 0.61 mm thick corrugated,plain	↓	42.0
095 250	ACOUSTICAL SPACE UNITS		
95 254	SOUND ABSORBING PANELS:		
095 254-0200	Sound absorbing panels,perforated steel facing,painted with fiberglass or mineral filler,no backs, 57 mm thick,modular,white or colored	SQM	210.00
095 254-0300	Sound absorbing panels, perforated steel facing, painted with fiberglass or mineral filler, no backs, 13 mm thick, modular, white or colored	1-6	9.00
095 254-0500	Sound absorbing panels, fiberglass panels, 1.2 m x 2.4 m x 25 mm thick, with glass cloth face	1	62.00
095 300	ACOUSTICAL INSULATION		
095 304	BARRIERS:		
095 304-0010	Barriers,plenum,leaded vinyl, 2.34 kg/m2	SQM	55.00

SABLE	N 09: FINISHES		
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
095 304-0300	Barriers,plenum,leaded vinyl, 7.3 kg/m2		93.4
095 304-0900	Barriers, aluminum mesh, kraft, paperbacked		20.0
095 304-1000	Barriers, sheet lead, 0.45 kg., 0.397 mm thick	*	51.0
095 308	SOUND ATTENUATION:		
095 308-0010	Sound attenuation,blanket, 25 mm thick	SQM	9.0
095 308-3000	Thermal or acoustical batt, 50 mm thick.		13.0
095 308-4200	Fiberglass, reinforced baker board, 11 mm thick.	*	47.0
095 600	WOOD STRIP FLOORING		
095 604	WOOD:		
095 604-3720	Wood,portable hardwood,prefinished panels,insulated with polystyrene, 25 mm thick	SQM	187.0
095 604-4000	Wood,maple,strip, 20 mm x 57 mm,select grade		315.0
095 604-4300	Wood,maple,strip, 26 mm x 83 mm,select grade		368.0
095 604-4600	Wood,oak,white or red, 20 x 57mm clear, select grade	SQM	300.0
095 604-5650	Wood,parquetry, 21 mm thick, select grade oak average		472.0
095 604-6100	Wood,parquetry, 57 mm wide, prefinished prime grade white oak,average		404.0
		- 1	
095 604-7000	Wood,parquetry, 8 mm thick, walnut or teak,average	•	
095 604-7000 096 096 150	FLOORING & CARPET MARBLE FLOORING	044651	
095 604-7000 096 096 150 096 151	FLOORING & CARPET MARBLE FLOORING MARBLE & GRANITE: See also Div. 044554 & 0	044651	278.2
095 604-7000 096 096 150	FLOORING & CARPET MARBLE FLOORING	044651	
095 604-7000 096 096 150 096 151 096 350 096 354	FLOORING & CARPET MARBLE FLOORING MARBLE & GRANITE: See also Div. 044554 & 0 BRICK FLOORING FLOORING:		278.2
095 604-7000 096 096 150 096 151 096 350 096 354 096 354-0200	FLOORING & CARPET MARBLE FLOORING MARBLE & GRANITE: See also Div. 044554 & 0 BRICK FLOORING FLOORING: Flooring, acidproof clay brick, 200 mm x 200 mm x 30 mm thick	SQM	278.2
095 604-7000 096 096 150 096 151 096 350 096 354 096 354-0200 096 354-0500	FLOORING & CARPET MARBLE FLOORING MARBLE & GRANITE: See also Div. 044554 & 0 BRICK FLOORING FLOORING: Flooring, acidproof clay brick, 200 mm x 200 mm x 30 mm thick Flooring, pavers, 200 mm x 100 mm, 70 mm thick red		278.2 68.2 53.0
095 604-7000 096 096 150 096 350 096 354 096 354-0200 096 354-0580	FLOORING & CARPET MARBLE FLOORING MARBLE & GRANITE: See also Div. 044554 & 0 BRICK FLOORING FLOORING: Flooring, acidproof clay brick, 200 mm x 200 mm x 30 mm thick Flooring, pavers, 200 mm x 100 mm, 70 mm thick red Flooring, pavers, 250 mm x 125 mm, 70 mm thick red	SQM SQM	278.2 68.2 53.0
095 604-7000 096 096 150 096 151 096 350 096 354 096 354-0500 096 354-0580 096 600	FLOORING & CARPET MARBLE FLOORING MARBLE & GRANITE: See also Div. 044554 & 0 BRICK FLOORING FLOORING: Flooring, acidproof clay brick, 200 mm x 200 mm x 30 mm thick Flooring, pavers, 200 mm x 100 mm, 70 mm thick red	SQM SQM	278.2
095 604-7000 096 096 150 096 151 096 350 096 354 096 354-0200 096 354-0500 096 354-0580 096 600	FLOORING & CARPET MARBLE FLOORING MARBLE & GRANITE: See also Div. 044554 & 0 BRICK FLOORING FLOORING: Flooring, acidproof clay brick, 200 mm x 200 mm x 30 mm thick Flooring, pavers, 200 mm x 100 mm, 70 mm thick red Flooring, pavers, 250 mm x 125 mm, 70 mm thick red RESILIENT TILE FLOORING RESILENT:	SQM SQM	278.2 68.2 53.0
095 604-7000 096 096 150 096 350 096 354 096 354-0200 096 354-0500 096 354-0580 096 600 096 610	FLOORING & CARPET MARBLE FLOORING MARBLE & GRANITE: See also Div. 044554 & 0 BRICK FLOORING FLOORING: Flooring, acidproof clay brick, 200 mm x 200 mm x 30 mm thick Flooring, pavers, 200 mm x 100 mm, 70 mm thick red Flooring, pavers, 250 mm x 125 mm, 70 mm thick red RESILIENT TILE FLOORING	SQM SQM "	278.2 68.2 53.0 53.0
095 604-7000 096 150 096 151 096 350 096 354 096 354-0500 096 354-0580 096 610 096 610-0800	FLOORING & CARPET MARBLE FLOORING MARBLE & GRANITE: See also Div. 044554 & 0 BRICK FLOORING FLOORING: Flooring, acidproof clay brick, 200 mm x 200 mm x 30 mm thick Flooring, pavers, 200 mm x 100 mm, 70 mm thick red Flooring, pavers, 250 mm x 125 mm, 70 mm thick red RESILIENT TILE FLOORING RESILENT: Resilient, asphalt tile, 3 mm thick, color	SQM SQM "	278.2 68.2 53.0 53.0 29.0
095 604-7000 096 150 096 151 096 354 096 354-0200 096 354-0500 096 600 096 610-0050 096 610-1500	FLOORING & CARPET MARBLE FLOORING MARBLE & GRANITE: See also Div. 044554 & 0 BRICK FLOORING FLOORING: Flooring, acidproof clay brick, 200 mm x 200 mm x 30 mm thick Flooring, pavers, 200 mm x 100 mm, 70 mm thick red Flooring, pavers, 250 mm x 125 mm, 70 mm thick red RESILIENT TILE FLOORING RESILENT: Resilient, asphalt tile, 3 mm thick, color Resilient base, cove, rubber or vinyl, 2 mm thick, standard colors, 150 mm high	SQM SQM " SQ.M LM	278.2 53.0 53.0 29.0 46.0
095 604-7000 096 150 096 151 096 354 096 354-0200 096 354-0580 096 610 096 610-0800 096 610-1500 096 610-1700	FLOORING & CARPET MARBLE FLOORING MARBLE & GRANITE: See also Div. 044554 & 0 BRICK FLOORING FLOORING: Flooring, acidproof clay brick, 200 mm x 200 mm x 30 mm thick Flooring, pavers, 200 mm x 100 mm, 70 mm thick red Flooring, pavers, 250 mm x 125 mm, 70 mm thick red RESILIENT TILE FLOORING RESILENT: Resilient, asphalt tile, 3 mm thick, color Resilient base, cove, rubber or vinyl, 2 mm thick, standard colors, 150 mm high Resilient base, cove, rubber or vinyl, 3 mm thick, standard colors, 100 mm high	SQM SQM " SQ.M LM	278.2 53.0 53.0 29.0 46.0 40.0
095 604-7000 096 150 996 151 996 354 096 354-0200 096 354-0500 096 610-0800 096 610-1500 096 610-1700 096 610-1800	FLOORING & CARPET MARBLE FLOORING MARBLE & GRANITE: See also Div. 044554 & 0 BRICK FLOORING FLOORING: Flooring, acidproof clay brick, 200 mm x 200 mm x 30 mm thick Flooring, pavers, 200 mm x 100 mm, 70 mm thick red Flooring, pavers, 250 mm x 125 mm, 70 mm thick red RESILIENT TILE FLOORING RESILENT: Resilient, asphalt tile, 3 mm thick, color Resilient base, cove, rubber or vinyl, 2 mm thick, standard colors, 150 mm high Resilient base, cove, rubber or vinyl, 3 mm thick, standard colors, 100 mm high Resilient conductive flooring, rubber tile, 3 mm thick	SQM SQM " SQ.M LM	278.2 53.0 53.0 46.0 40.0 54.0
095 604-7000 096 150 096 151 096 350 096 354 096 354-0500 096 354-0580 096 610-050 096 610-1500 096 610-1700 096 610-2200	FLOORING & CARPET MARBLE FLOORING MARBLE & GRANITE: See also Div. 044554 & 0 BRICK FLOORING FLOORING: Flooring, acidproof clay brick, 200 mm x 200 mm x 30 mm thick Flooring, pavers, 200 mm x 100 mm, 70 mm thick red Flooring, pavers, 250 mm x 125 mm, 70 mm thick red RESILIENT TILE FLOORING RESILENT: Resilient, asphalt tile, 3 mm thick, color Resilient base, cove, rubber or vinyl, 2 mm thick, standard colors, 150 mm high Resilient base, cove, rubber or vinyl, 3 mm thick, standard colors, 100 mm high Resilient conductive flooring, rubber tile, 3 mm thick Resilient conductive flooring, homogeneous vinyl tile, 2 mm thick	SQM SQM " SQ.M LM	278.2 53.0 53.0 29.0 46.0 40.0 54.0 76.0
095 604-7000 096 150 096 151 096 354 096 354-0200 096 354-0500 096 354-0580 096 610-0800 096 610-1500 096 610-1800 096 610-2200 096 610-2300	FLOORING & CARPET MARBLE FLOORING MARBLE & GRANITE: See also Div. 044554 & 0 BRICK FLOORING FLOORING: Flooring, acidproof clay brick, 200 mm x 200 mm x 30 mm thick Flooring, pavers, 200 mm x 100 mm, 70 mm thick red Flooring, pavers, 250 mm x 125 mm, 70 mm thick red RESILIENT TILE FLOORING RESILENT: Resilient, asphalt tile, 3 mm thick, color Resilient base, cove, rubber or vinyl, 2 mm thick, standard colors, 150 mm high Resilient conductive flooring, rubber tile, 3 mm thick Resilient conductive flooring, homogeneous vinyl tile, 2 mm thick Resilient, cork tile, standard finish, 3 mm thick	SQM SQM " SQ.M LM	278.2 53.0 53.0 46.0 40.0 54.0 76.0
095 604-7000 096 150 096 151 096 350 096 354 096 354-0500 096 354-0580 096 610 096 610-0800 096 610-1700 096 610-1800 096 610-2200 096 610-2350	FLOORING & CARPET MARBLE FLOORING MARBLE & GRANITE: See also Div. 044554 & 0 BRICK FLOORING FLOORING: Flooring, acidproof clay brick, 200 mm x 200 mm x 30 mm thick Flooring, pavers, 200 mm x 100 mm, 70 mm thick red Flooring, pavers, 250 mm x 125 mm, 70 mm thick red RESILIENT TILE FLOORING RESILENT: Resilient, asphalt tile, 3 mm thick, color Resilient base, cove, rubber or vinyl, 2 mm thick, standard colors, 150 mm high Resilient conductive flooring, rubber tile, 3 mm thick Resilient conductive flooring, homogeneous vinyl tile, 2 mm thick Resilient, cork tile, standard finish, 3 mm thick Resilient, cork tile, standard finish, 8 mm thick	SQM SQM " SQ.M LM	278.2 53.0 53.0 46.0 40.0 102.0 54.0 76.0 126.0
095 604-7000 096 150 096 151 096 350 096 354 096 354-0500 096 354-0580 096 600 096 610-0800 096 610-1500 096 610-1800 096 610-2300 096 610-2300 096 610-2500 096 610-2500 096 610-2500	FLOORING & CARPET MARBLE FLOORING MARBLE & GRANITE: See also Div. 044554 & 0 BRICK FLOORING FLOORING: Flooring, acidproof clay brick, 200 mm x 200 mm x 30 mm thick Flooring, pavers, 200 mm x 100 mm, 70 mm thick red Flooring, pavers, 250 mm x 125 mm, 70 mm thick red RESILIENT TILE FLOORING RESILENT: Resilient, asphalt tile, 3 mm thick, color Resilient base, cove, rubber or vinyl, 2 mm thick, standard colors, 150 mm high Resilient conductive flooring, rubber tile, 3 mm thick Resilient conductive flooring, homogeneous vinyl tile, 2 mm thick Resilient, cork tile, standard finish, 3 mm thick Resilient, cork tile, standard finish, 8 mm thick Resilient, cork tile, standard finish, 13 mm thick Resilient, cork tile, standard finish, 13 mm thick	SQM SQM " SQ.M LM	278.2 53.0 53.0 46.0 40.0 54.0 76.0 126.0 149.0 208.0
095 604-7000 096 096 150 096 151 096 350 096 354 096 354-0500 096 354-0580 096 600 096 610-0800 096 610-1500 096 610-1800 096 610-2300 096 610-2300 096 610-2500 096 610-5500	FLOORING & CARPET MARBLE FLOORING MARBLE & GRANITE: See also Div. 044554 & 0 BRICK FLOORING FLOORING: Flooring, acidproof clay brick, 200 mm x 200 mm x 30 mm thick Flooring, pavers, 200 mm x 100 mm, 70 mm thick red Flooring, pavers, 250 mm x 125 mm, 70 mm thick red RESILIENT TILE FLOORING RESILENT: Resilient, asphalt tile, 3 mm thick, color Resilient base, cove, rubber or vinyl, 2 mm thick, standard colors, 150 mm high Resilient conductive flooring, rubber tile, 3 mm thick Resilient conductive flooring, homogeneous vinyl tile, 2 mm thick Resilient, cork tile, standard finish, 3 mm thick Resilient, cork tile, standard finish, 8 mm thick Resilient, cork tile, standard finish, 13 mm thick Resilient, cork tile, standard finish, 13 mm thick Resilient, cork tile, urethane finish, 8 mm thick	SQM SQM " SQ.M LM	278.2 68.2 53.0

CSI		11607	COST PER
CODE	ITEM DESCRIPTION	UNIT	UNIT (SR)
096 610-5600	Resilient polyvinyl chloride sheet, for gymnasium, 10 mm thick		147.0
096 610-5900	Resilient rubber sheet, 914 mm wide, 3 mm thick		42.0
096 610-6000	Resilient rubber sheet, 914 mm wide, 6 mm thick		92.0
	Resilient rubber tile, simulated terrazzo, 500 x 500 mm, 3 mm thick		175.3
	Resilient rubber tile, marbilized colors, 300 mm x 300 mm, 5 mm thick	1	133.0
	Resilient, synthetic turf, 10 mm thick	SQM	158.0
	Resilient, synthetic turf, 8 mm thick		115.0
Assessment of the second of the second	Resilient, vinyl composition tile, 300 mm x 300 mm,2 mm thick, embossed		24.0
	Resilient, vinyl composition tile, 300 mm x 300 mm, 2 mm thick, marbilized. Resilient, vinyl composition tile, 300 mm x 300 mm, 2 mm thick, solid		26.0
APPARENT MATERIAL SALE PROTECTION	Resilient, vinyl composition tile, 300 mm x 300 mm, 3 mm thick, marbilized		85.0
	Resilient, viryl composition tile, 300 mm x 300 mm, 3 mm thick, marbined		36.0
Activities and a contract to the contract of	Resilient, vinyl tile 300 mm x 300 mm, 1 mm thick, average		22.0
	Resilient, vinyl tile 300 mm x 300 mm, 3 mm thick, solid colors		36.0
SULVANTA CONTROL OF THE SULVANTA CONTROL	Resilient, vinyl tile 300 mm x 300 mm, 3 mm thick, marbilized or traventine pattern		34.0
096 610-7750	Resilient, vinyl tile 300 mm x 300 mm, 3 mm thick, florentine pattern, average		106.0
096 610-8200	Resilent, vinyl sheet, backed, 3 mm thick, average		34.0
096 610-8300	Resilent, vinyl sheet, backed, 6 mm thick, average		76.0
096 610-8310	Resilent, sit - on type, PVC skirting	+	95.0
096 850	SHEET CARPET		
96 852	CARPET:		
	CARPET: Carpet,nylon, level loop, 730 gram light traffic	SQM	44.0
096 852-0700		SQM	The second secon
096 852-0700 096 852-0710	Carpet,nylon, level loop, 730 gram light traffic	SQM	49.0
096 852-0700 096 852-0710 096 852-0720	Carpet,nylon, level loop, 730 gram light traffic Carpet, nylon, tufted cut pile, 1200 grams medium traffic	SQM	49.0 57.0 63.0
096 852-0700 096 852-0710 096 852-0720 096 852-0730 096 852-0740	Carpet, nylon, level loop, 730 gram light traffic Carpet, nylon, tufted cut pile, 1200 grams medium traffic Carpet, nylon, tufted cut pile one level heavy duty Carpet, nylon, level loop 700 grams heavy traffic Carpet, polymid, level loop 500 grams light traffic	SQM	49.0 57.0 63.0 52.8
096 852-0700 096 852-0710 096 852-0720 096 852-0730 096 852-0740 096 852-0750	Carpet, nylon, level loop, 730 gram light traffic Carpet, nylon, tufted cut pile, 1200 grams medium traffic Carpet, nylon, tufted cut pile one level heavy duty Carpet, nylon, level loop 700 grams heavy traffic Carpet, polymid, level loop 500 grams light traffic Carpet, 40% wool 60% nylon 1500 - 1600 grams heavy duty	SQM	49.0 57.0 63.0 52.9 49.0
096 852-0700 096 852-0710 096 852-0720 096 852-0730 096 852-0740 096 852-0750 096 852-3100	Carpet, nylon, level loop, 730 gram light traffic Carpet, nylon, tufted cut pile, 1200 grams medium traffic Carpet, nylon, tufted cut pile one level heavy duty Carpet, nylon, level loop 700 grams heavy traffic Carpet, polymid, level loop 500 grams light traffic Carpet, 40% wool 60% nylon 1500 - 1600 grams heavy duty Carpet, nylon tufted loop pile level, heavy duty	SQM	49.0 57.0 63.0 52.5 49.0
096 852-0700 096 852-0710 096 852-0720 096 852-0730 096 852-0740 096 852-0750 096 852-3100 096 852-3220	Carpet, nylon, level loop, 730 gram light traffic Carpet, nylon, tufted cut pile, 1200 grams medium traffic Carpet, nylon, tufted cut pile one level heavy duty Carpet, nylon, level loop 700 grams heavy traffic Carpet, polymid, level loop 500 grams light traffic Carpet, 40% wool 60% nylon 1500 - 1600 grams heavy duty Carpet, nylon tufted loop pile level, heavy duty Carpet, 90% acrylic 10% wool level loop 810 grams, medium traffic	SQM	49.0 57.0 63.0 52.5 49.0 56.7
096 852-0700 096 852-0710 096 852-0720 096 852-0740 096 852-0750 096 852-3100 096 852-3220 096 852-3230	Carpet, nylon, level loop, 730 gram light traffic Carpet, nylon, tufted cut pile, 1200 grams medium traffic Carpet, nylon, tufted cut pile one level heavy duty Carpet, nylon, level loop 700 grams heavy traffic Carpet, polymid, level loop 500 grams light traffic Carpet, 40% wool 60% nylon 1500 - 1600 grams heavy duty Carpet, nylon tufted loop pile level,heavy duty Carpet, 90% acrylic 10% wool level loop 810 grams, medium traffic Carpet, 50% wool & 50% synthetic level loop 900 grams, heavy duty	SQM	49.0 57.0 63.0 52.9 49.0 56.7 67.0
096 852-0700 096 852-0710 096 852-0720 096 852-0730 096 852-0740 096 852-0750 096 852-3100 096 852-3220 096 852-3230	Carpet, nylon, level loop, 730 gram light traffic Carpet, nylon, tufted cut pile, 1200 grams medium traffic Carpet, nylon, tufted cut pile one level heavy duty Carpet, nylon, level loop 700 grams heavy traffic Carpet, polymid, level loop 500 grams light traffic Carpet, 40% wool 60% nylon 1500 - 1600 grams heavy duty Carpet, nylon tufted loop pile level, heavy duty Carpet, 90% acrylic 10% wool level loop 810 grams, medium traffic Carpet, 50% wool & 50% synthetic level loop 900 grams, heavy duty Carpet, wool synthetic, 950 grams, light duty	SQM	49.0 57.0 63.0 52.3 49.0 56.1 67.0 54.0
096 852-0700 096 852-0710 096 852-0720 096 852-0740 096 852-0750 096 852-3100 096 852-3220 096 852-3230 096 852-3240 096 852-3350	Carpet, nylon, level loop, 730 gram light traffic Carpet, nylon, tufted cut pile, 1200 grams medium traffic Carpet, nylon, tufted cut pile one level heavy duty Carpet, nylon, level loop 700 grams heavy traffic Carpet, polymid, level loop 500 grams light traffic Carpet, 40% wool 60% nylon 1500 - 1600 grams heavy duty Carpet, nylon tufted loop pile level, heavy duty Carpet, 90% acrylic 10% wool level loop 810 grams, medium traffic Carpet, 50% wool & 50% synthetic level loop 900 grams, heavy duty Carpet, wool synthetic, 950 grams, light duty Carpet, 100% polypropylene level loop, heavy traffic	SQM	49.0 57.0 63.0 52.8 49.0 56.7 67.0 54.0
096 852-0700 096 852-0710 096 852-0720 096 852-0740 096 852-0750 096 852-3100 096 852-3220 096 852-3230 096 852-3240 096 852-3350	Carpet, nylon, level loop, 730 gram light traffic Carpet, nylon, tufted cut pile, 1200 grams medium traffic Carpet, nylon, tufted cut pile one level heavy duty Carpet, nylon, level loop 700 grams heavy traffic Carpet, polymid, level loop 500 grams light traffic Carpet, 40% wool 60% nylon 1500 - 1600 grams heavy duty Carpet, nylon tufted loop pile level, heavy duty Carpet, 90% acrylic 10% wool level loop 810 grams, medium traffic Carpet, 50% wool & 50% synthetic level loop 900 grams, heavy duty Carpet, wool synthetic, 950 grams, light duty	SQM	49.0 57.0 63.0 52.9 49.0 56.7 54.0 38.0
096 852-0700 096 852-0710 096 852-0720 096 852-0730 096 852-0750 096 852-3220 096 852-3230 096 852-3240 096 852-3350 096 852-3350	Carpet, nylon, level loop, 730 gram light traffic Carpet, nylon, tufted cut pile, 1200 grams medium traffic Carpet, nylon, tufted cut pile one level heavy duty Carpet, nylon, level loop 700 grams heavy traffic Carpet, polymid, level loop 500 grams light traffic Carpet, 40% wool 60% nylon 1500 - 1600 grams heavy duty Carpet, nylon tufted loop pile level, heavy duty Carpet, 90% acrylic 10% wool level loop 810 grams, medium traffic Carpet, 50% wool & 50% synthetic level loop 900 grams, heavy duty Carpet, wool synthetic, 950 grams, light duty Carpet, 100% polypropylene level loop, heavy traffic	SQM	49.0 57.0 63.0 52.1 49.0 56.1 67.0 54.0 38.6
096 852-0700 096 852-0710 096 852-0720 096 852-0740 096 852-0750 096 852-3100 096 852-3220 096 852-3230 096 852-3240 096 852-3350 096 852-3360 096 852-3370	Carpet, nylon, level loop, 730 gram light traffic Carpet, nylon, tufted cut pile, 1200 grams medium traffic Carpet, nylon, tufted cut pile one level heavy duty Carpet, nylon, level loop 700 grams heavy traffic Carpet, polymid, level loop 500 grams light traffic Carpet, 40% wool 60% nylon 1500 - 1600 grams heavy duty Carpet, nylon tufted loop pile level, heavy duty Carpet, 90% acrylic 10% wool level loop 810 grams, medium traffic Carpet, 50% wool & 50% synthetic level loop 900 grams, heavy duty Carpet, wool synthetic, 950 grams, light duty Carpet, 100% polypropylene level loop, heavy traffic Carpet, 100% polypropylene tufted cut pile 1000 grams, heavy duty	SQM	49.0 57.0 63.0 52.8 49.0 56.7 67.0 54.0 44.0 51.0
096 852-0700 096 852-0710 096 852-0720 096 852-0730 096 852-0750 096 852-3220 096 852-3230 096 852-3240 096 852-3350 096 852-3350 096 852-3370 096 852-3380	Carpet, nylon, level loop, 730 gram light traffic Carpet, nylon, tufted cut pile, 1200 grams medium traffic Carpet, nylon, tufted cut pile one level heavy duty Carpet, nylon, level loop 700 grams heavy traffic Carpet, polymid, level loop 500 grams light traffic Carpet, 40% wool 60% nylon 1500 - 1600 grams heavy duty Carpet, nylon tufted loop pile level, heavy duty Carpet, 90% acrylic 10% wool level loop 810 grams, medium traffic Carpet, 50% wool & 50% synthetic level loop 900 grams, heavy duty Carpet, wool synthetic, 950 grams, light duty Carpet, 100% polypropylene level loop, heavy traffic Carpet, 100% polypropylene tufted cut pile 1000 grams, heavy duty Carpet, 100% polypropylene tufted cut pile, medium duty	SQM	49.0 57.0 63.0 52.5 49.0 56.7 54.0 38.6 44.0 51.0
096 852-0700 096 852-0710 096 852-0720 096 852-0730 096 852-0750 096 852-3100 096 852-3220 096 852-3240 096 852-3350 096 852-3360 096 852-3370 096 852-3380 096 852-3380	Carpet, nylon, level loop, 730 gram light traffic Carpet, nylon, tufted cut pile, 1200 grams medium traffic Carpet, nylon, tufted cut pile one level heavy duty Carpet, nylon, level loop 700 grams heavy traffic Carpet, polymid, level loop 500 grams light traffic Carpet, 40% wool 60% nylon 1500 - 1600 grams heavy duty Carpet, nylon tufted loop pile level, heavy duty Carpet, 90% acrylic 10% wool level loop 810 grams, medium traffic Carpet, 50% wool & 50% synthetic level loop 900 grams, heavy duty Carpet, wool synthetic, 950 grams, light duty Carpet, 100% polypropylene level loop, heavy traffic Carpet, 100% polypropylene tufted cut pile 1000 grams, heavy duty Carpet, 100% polypropylene tufted cut pile, medium duty Carpet, polypropylene loop pile tufted, light traffic	SQM	49.0 57.0 63.0 52.8 49.0 56.7 67.0 54.0 44.0 51.0 48.0
096 852-0700 096 852-0710 096 852-0720 096 852-0730 096 852-0750 096 852-3220 096 852-3220 096 852-3230 096 852-3350 096 852-3350 096 852-3370 096 852-3380 096 852-3380 096 852-3380	Carpet, nylon, level loop, 730 gram light traffic Carpet, nylon, tufted cut pile, 1200 grams medium traffic Carpet, nylon, tufted cut pile one level heavy duty Carpet, nylon, level loop 700 grams heavy traffic Carpet, polymid, level loop 500 grams light traffic Carpet, 40% wool 60% nylon 1500 - 1600 grams heavy duty Carpet, nylon tufted loop pile level, heavy duty Carpet, nylon tufted loop pile level, heavy duty Carpet, 90% acrylic 10% wool level loop 810 grams, medium traffic Carpet, 50% wool & 50% synthetic level loop 900 grams, heavy duty Carpet, wool synthetic, 950 grams, light duty Carpet, 100% polypropylene level loop, heavy traffic Carpet, 100% polypropylene tufted cut pile 1000 grams, heavy duty Carpet, 100% polypropylene tufted cut pile, medium duty Carpet, polypropylene loop pile tufted, light traffic Carpet, 100% nylon cut pile 1900 grams, heavy traffic Carpet, 100% dupont nylon antron plus teflon tufted cut pile, heavy duty	SQM	49.0 57.0 63.0 52.8 49.0 56.1 54.0 38.8 44.1 51.0 48.0 37.0 46.0
096 852-0700 096 852-0710 096 852-0720 096 852-0730 096 852-0750 096 852-3100 096 852-3220 096 852-3220 096 852-3350 096 852-3360 096 852-3380 096 852-3380 096 852-3380 096 852-3380 096 852-3380 096 852-3380	Carpet, nylon, level loop, 730 gram light traffic Carpet, nylon, tufted cut pile, 1200 grams medium traffic Carpet, nylon, tufted cut pile one level heavy duty Carpet, nylon, level loop 700 grams heavy traffic Carpet, polymid, level loop 500 grams light traffic Carpet, 40% wool 60% nylon 1500 - 1600 grams heavy duty Carpet, nylon tufted loop pile level, heavy duty Carpet, nylon tufted loop pile level, heavy duty Carpet, 90% acrylic 10% wool level loop 810 grams, medium traffic Carpet, 50% wool & 50% synthetic level loop 900 grams, heavy duty Carpet, wool synthetic, 950 grams, light duty Carpet, 100% polypropylene level loop, heavy traffic Carpet, 100% polypropylene tufted cut pile 1000 grams, heavy duty Carpet, 100% polypropylene tufted cut pile, medium duty Carpet, polypropylene loop pile tufted, light traffic Carpet, 100% nylon cut pile 1900 grams, heavy traffic Carpet, 100% dupont nylon antron plus teflon tufted cut pile, heavy duty Carpet, 100% polyester 100 grams, light traffic	SQM	49.0 57.0 63.0 52.5 49.0 56.7 54.0 38.8 44.0 51.0 48.0 37.0 46.0
096 852-0700 096 852-0710 096 852-0720 096 852-0730 096 852-0750 096 852-0750 096 852-3220 096 852-3230 096 852-3230 096 852-3350 096 852-3360 096 852-3370 096 852-3390 096 852-3510 096 852-3510 096 852-3520 096 852-3580	Carpet, nylon, level loop, 730 gram light traffic Carpet, nylon, tufted cut pile, 1200 grams medium traffic Carpet, nylon, tufted cut pile one level heavy duty Carpet, nylon, level loop 700 grams heavy traffic Carpet, polymid, level loop 500 grams light traffic Carpet, polymid, level loop 500 grams light traffic Carpet, 40% wool 60% nylon 1500 - 1600 grams heavy duty Carpet, nylon tufted loop pile level,heavy duty Carpet, 90% acrylic 10% wool level loop 810 grams, medium traffic Carpet, 50% wool & 50% synthetic level loop 900 grams, heavy duty Carpet, wool synthetic, 950 grams, light duty Carpet, 100% polypropylene level loop, heavy traffic Carpet, 100% polypropylene tufted cut pile 1000 grams,heavy duty Carpet, 100% polypropylene tufted cut pile,medium duty Carpet, polypropylene loop pile tufted, light traffic Carpet, 100% nylon cut pile 1900 grams, heavy traffic Carpet, 100% dupont nylon antron plus teflon tufted cut pile,heavy duty Carpet, 100% polyester 100 grams, light traffic Carpet, 100% nylon cut pile medium traffic	SQM	49.0 57.0 63.0 52.8 49.0 56.1 67.0 54.0 48.0 51.0 48.0 58.0 37.0 46.0 54.0 58.0
096 852-0700 096 852-0710 096 852-0720 096 852-0730 096 852-0750 096 852-3100 096 852-3220 096 852-3220 096 852-3360 096 852-3380 096 852-3380 096 852-3380 096 852-3510 096 852-3510 096 852-3510 096 852-3520 096 852-3680	Carpet, nylon, level loop, 730 gram light traffic Carpet, nylon, tufted cut pile, 1200 grams medium traffic Carpet, nylon, tufted cut pile one level heavy duty Carpet, nylon, level loop 700 grams heavy traffic Carpet, polymid, level loop 500 grams light traffic Carpet, polymid, level loop 500 grams light traffic Carpet, 40% wool 60% nylon 1500 - 1600 grams heavy duty Carpet, nylon tufted loop pile level, heavy duty Carpet, 90% acrylic 10% wool level loop 810 grams, medium traffic Carpet, 50% wool & 50% synthetic level loop 900 grams, heavy duty Carpet, wool synthetic, 950 grams, light duty Carpet, 100% polypropylene level loop, heavy traffic Carpet, 100% polypropylene tufted cut pile 1000 grams, heavy duty Carpet, 100% polypropylene tufted cut pile, medium duty Carpet, 100% nylon cut pile 1900 grams, heavy traffic Carpet, 100% dupont nylon antron plus teflon tufted cut pile, heavy duty Carpet, 100% polyester 100 grams, light traffic Carpet, 100% nylon cut pile medium traffic Carpet, 100% nylon cut pile medium traffic Carpet, 100% polyester cut pile 1500 grams, heavy traffic	SQM	44.0 49.0 57.0 63.0 52.5 49.0 56.7 67.0 54.0 48.0 58.0 46.0 58.0 37.0 46.0 28.0
096 852-0710 096 852-0720 096 852-0730 096 852-0740 096 852-0750 096 852-3100 096 852-3220 096 852-3240 096 852-3350 096 852-3370 096 852-3380 096 852-3390 096 852-3520 096 852-3520 096 852-3680 096 852-3740	Carpet, nylon, level loop, 730 gram light traffic Carpet, nylon, tufted cut pile, 1200 grams medium traffic Carpet, nylon, tufted cut pile one level heavy duty Carpet, nylon, level loop 700 grams heavy traffic Carpet, polymid, level loop 500 grams light traffic Carpet, polymid, level loop 500 grams light traffic Carpet, 40% wool 60% nylon 1500 - 1600 grams heavy duty Carpet, nylon tufted loop pile level,heavy duty Carpet, 90% acrylic 10% wool level loop 810 grams, medium traffic Carpet, 50% wool & 50% synthetic level loop 900 grams, heavy duty Carpet, wool synthetic, 950 grams, light duty Carpet, 100% polypropylene level loop, heavy traffic Carpet, 100% polypropylene tufted cut pile 1000 grams,heavy duty Carpet, 100% polypropylene tufted cut pile,medium duty Carpet, polypropylene loop pile tufted, light traffic Carpet, 100% nylon cut pile 1900 grams, heavy traffic Carpet, 100% dupont nylon antron plus teflon tufted cut pile,heavy duty Carpet, 100% polyester 100 grams, light traffic Carpet, 100% nylon cut pile medium traffic	SQM	49.0 57.0 63.0 52.5 49.0 56.7 67.0 54.0 38.8 44.0 51.0 48.0 37.0 46.0 54.0

CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
096 852-9500	Printed Carpet		26.2
096 900	CARPET TILE:		20.2
096 900-1100	Carpet tile,tufted, 457mm x 457mm or 610 mm x 610 mm, 680 gram	SQM	82.00
The street of th	Carpet tile,tufted, 457mm x 457mm or 610 mm x 610 mm, 900 gram	1 1	109.00
	Carpet tile,tufted, 457 mm x 457 mm or 610 mm x 610 mm, 1190 gram		198.00
098	SPECIAL COATINGS		190.00
098 150	GLAZED COATINGS	to the second	
098 150	WALL COATINGS:		
	Wall coatings,acrylic glazed coatings	DRUM	E MANAGEMENT
	Wall coatings, epoxy coatings	DROM	205.00
099	PAINTING & WALL COVERINGS		295.00
		1	1
099 100	EXTERIOR PAINTING:		
099 102	PAINTS:		ř
	Plastic emulsion interior paint	LTR.	6.00
	Acrylic emulsion interior paint		7.00
	Acrylic emulsion exterior paint		8.00
	Polyvinyl acetate emulsion exterior paint		11.00
	Acrylic emulsion semigloss paint		10.00
	Acrylic emulsion gloss paint		11.00
	Silicone water repellant for exterior masonry Texture Gloss paint		22.00
	Flat alkyd paint		13.00
	Satin finish paint		14.00
	High gloss enamel paint		14.00
	Acrylic enamel paint		14.00
	Polyurethane texture gloss finish paint		18.00
099 102-0200		▼	30.00
The same of the sa	Putty for interior or exterior on wood and metal	LTR.	30.00
	Aluminum finish paint	KG	25.00
	Red oxide metal primer	LTR	19.00
	Zinc/iron oxide primer		8.00
	Exterior synthetic enamel paint		23.00
	Industrial quick dry primer		16.00
	Bituminous paint		16.00
	Galvanizing paint		2.50
	Semigloss silicone alkyd paint		23.00
	WALLPAPER	▼	11.34
	WALL COVERING		
	Wall covering,copper sheets, 0.6 mm thick,vinyl backing	SQM	101.00
	Wall covering, copper sheets, 0.6 mm thick, phenolic backing	T T	121.00
	Wall covering, cork tiles, light or dark, 300 mm x 300 mm x 5 mm thick		156.00 79.00

CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
099 701-0700	Wall covering, cork tiles, light or dark, 300 mm x 300 mm x 8 mm thick		81.00
099 701-0900	Wall covering, cork tiles, light or dark, 300 mm x 300 mm x 6 mm,basket weave		125.00
099 701-1000	Wall covering, cork tiles, light or dark, 300 mm x 300 mm x 13 mm thick, natural,non-directional		122.00
099 701-1200	Wall covering, cork tiles,granular surface, 300 x 910 mm x 13 mm thick		27.30
099 701-1600	Wall covering, cork tiles,polyurethane coated, 300 mm x 300 mm x 8 mm thick		119.00
099 701-1900	Wall covering, cork wallpaper,paperbacked,colored	+	59.00
099 701-2100	Wall covering, flexible wood veneer, 0.8 mm thick, plain woods	SQM	48.00
099 701-2800	Wall covering, acrylic,modified,semi-rigid PVC, 1 mm thick		32.00
099 701-3300	Wall covering, vinyl,fabric-backed,medium weight		15.75
099 701-3700	Wall covering,wallpaper,solid pattern,low cost paper		15.75
099 701-3900	Wall covering, wallpaper, basic patterns, average cost paper		15,75
099 701-4100	Wall covering, wallpaper, paper backed, flame treatment, average	1	17.85



الإدارة العامة ٢٠٨٠٠٠٠ - قسم المشاريع ٢٧٢٧٢٧ - السويدي ٢٦٦٢٦٦١ - الروضة ٢٤٨٠٨٢٧ - المرسلات ٢٠٥١٠٢٠









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Division 10 Specialties

	100 104 101 104-0140 101 104-0340 101 104-0500	CHALKBOARDS, COMPARTMENTS & CUB CHALKBOARDS CHALKBOARDS Chalkboard, one side, 1200 mm x 1800 mm, green, aluminum frame Whiteboard, 900 mm x 1800 mm with stand, double side Whiteboard, 1200 mm x 2400 mm, aluminum frame	ICLES EA	
101 1	104 101 104-0140 101 104-0340 101 104-0500	CHALKBOARDS Chalkboard, one side, 1200 mm x 1800 mm, green, aluminum frame Whiteboard, 900 mm x 1800 mm with stand, double side	EA	
	101 104-0140 101 104-0340 101 104-0500	Chalkboard, one side, 1200 mm x 1800 mm, green, aluminum frame Whiteboard, 900 mm x 1800 mm with stand, double side	EA	
	101 104-0340 101 104-0500	Whiteboard, 900 mm x 1800 mm with stand, double side	EA	
	101 104-0340 101 104-0500	Whiteboard, 900 mm x 1800 mm with stand, double side	+ - +	417.00
		Whitehoard 1200 mm × 2400 mm, aluminum framo	1 1 1	515.00
	101 104-0800	Willeboard, 1200 mm x 2400 mm, aluminum trame		348.00
		Whiteboard, 900 mm x 200 mm, aluminum frame		735.00
	101 104-1750	Whiteboard, 600 mm x 900 mm, aluminum frame		65.00
	101 104-1850	Whiteboard, 900 mm x 1500 mm, aluminum frame		198.00
	101 104-2100	Whiteboard, 900 mm x 1800 mm, aluminum frame		220.00
	101 104-2200	Whiteboard, 1200 mm x 1800 mm, aluminum frame		275.00
	101 104-5300	White marker board, 1200 mm x 900 mm H, 12 nos. dry markers, eraser, map hook and map rail		150.00
101 (600	TOILET COMPARTMENTS	, , , , , , , , , , , , , , , , , , ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
101 6	502	PARTITIONS, TOILET		
0.		Cubicles toilet partition, painted metal	SQM	
		Cubicles toilet partition, plastic laminate on particle board	OGIVI	1,470.00
		Cubicles toilet partition, porcelain enamel		1,720.00
	VSRIVE AND PROSE CONTRACT	Screens, entrance, 1.4 m high, 1.2 m wide, marble		2,850.00
	manus and a second	Screens, entrance, 1.4 m high, 1.2 m wide, plastic laminate on particle board		1,260.00
		Urinal screen, 457 mm wide, marble, 1.2 m high		368.00
- 11		Urinal screen, 457 mm wide, plastic laminate		945.00
101 8	850	SHOWER COMPARTMENTS	Y 1	545.00
101 8	52	PARTITIONS, SHOWER:		
1	101 852-0200	Shower cabinet, floor mounted, no plumbing, including base & fiberglass door,	EA	Lancation of
1		painted steel, 25 mm thick walls Shower cabinet, glass stalls, floor mounted with doors, chrome on brass		1,380 00
				2,750.00
		Shower cabinet, glass stalls, floor mounted with doors, anodized aluminum		1,860.00
1	01 852-4500	Shower Door, sliding tempered glass, 1.2 m opening		504.00
1		Shower enclosure, floor mounted, tempered glass, anodized aluminum frame, 2 panel & door, corner unit, 810 mm x 810 mm		900.00
1	01 852-5900	Tub/shower enclosure, floor mounted tempered glass, alum. frame, average		750.00
1 02		LOUVERS, CORNER PROTECTION & ACCE	SS FL	OORING
02 1	04 - i	LOUVERS		•//
1	02 104-0500 L	ouvers aluminum with screen, residential, 610 mm x 762 mm	EA	693.00
		ouvers, aluminum, 20 mm deep, 150 mm diameter	EA	281.00

CCI			COST PER
CODE	ITEM DESCRIPTION	UNIT	UNIT (SR)
102 604	CORNER GUARDS		***************************************
102 604-0300	Corner guards, steel angle, 100 mm x 100 mm x 8 mm, 12 kg/m	LM	97.00
102 604-0500	Cast iron wheel guards, 915 mm high	EA	434.00
102 608	CORNER PROTECTION		
102 608-0100	Corner protection, stainless steel, 16 ga., 89 mm leg	LM	132.00
102 608-0500	Corner protection, vinyl acrylic, 76 mm leg	LM	32.00
102 612	WALLGUARD		
102 612-0500	Wall guard rail, neoprene, aluminum backing, 38 mm x 50 mm	LM	85.00
102 612-1200	Wall guard, bed bumper, vinyl acrylic, aluminum retainer, 530 mm long	EA	90.00
102 612-1400	Bumper, vinyl cover, aluminum retainer 38 mm x 70 mm	LM	90.00
102 612-3010	Wall Guard, Handrail/bumper, bracket mounted, flat rail, 140 mm	LM	120.00
102 700	ACCESS FLOORING		
102 705	PEDESTAL ACCESS FLOORS		
102 /05-01001	Access floor, particle board with metal covering, 600 mm x 600 mm x 30 mm on snap prop stringers 200 mm high	SQM	295.00
102 /05-03001	Access floor, aluminum panels 600 mm x 600 mm x 40 mm on stringers 600 mm		315.00
THE SALE STORE SHOWN BY	Access floor, steel panels with carpet covering on stringer 600 mm high		340.00
102 705-0700	Access floor, steel panels with high pressure laminate covering, stringers 600 mm		250.00
	Access floor, extra heavy duty steel panels 600 x 600 x 30 mm with vinyl covering, stringer up to 600 mm high		265.00
	Access floor, fire stop, 900 mm long, upto 600 mm high	EA	1,050.00
103	FIREPLACES, EXT. SPECIALISTS & FLAGE	POLES	
103 050	PREFABRICATED FIREPLACES		
103 054	FIREPLACE, PREFABRICATED		
103 054-0100	Fireplace, prefabricated free standing with hood & screen, average	EA	3,163.65
103 054-0500	Fireplace, chimney, double wall, stainless steel, 180 mm diameter	LM	297.15
103 054-2100	Fireplace, built-in, 914 mm hearth, radiant, with recirculating fan	EA	1,958.25
103 054-2400	Fireplace, built-in, 1.2 m hearth, radiant	EA	3,238.20
103 520	GROUND SET FLAGPOLES		
103 524	FLAGPOLE		
103 524-0300	Flagpole, aluminum, tapered, 9 m high	EA	2,349.90
103 524-0600	Flagpole, aluminum, tapered, 15 m high		6,326.25
103 524-3300	Flagpole, fiberglass, tapered, 12.0 m high		5,108.00
103 524-3500	Flagpole, fiberglass, tapered, 18.0 m high		5,586.00
103 524-4700	Flagpole, concrete, direct imbedded installation, internal halyard, 12 m high		5,722.50
100 024 410011	Flagpole, galvanized steel, with base plate, anchor bolts, pulley and plastic ball,		3,360.00
103 524-4800	7.70 m		
103 524-4800	WALL MOUNTED FLAGPOLES		
103 524-4800 1			

	CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
	103 540-1300	Flagpole structure mounted, aluminum, vertical wall set, tapered, with base 6 m	EA	3,313.0
104		IDENTIFYING & PEDESTRIAN CONTROL DE	VICE	S
104	100	DIRECTORIES		
104	104	DIRECTORY BOARDS		
	104 104-0100	Directory boards, plastic, glass covered, 914 mm x 1220 mm	EA	3,885.0
	104 104-1000	Directory boards, outdoor, weatherproof, black plastic, 914 mm x 914 mm		2,520 (
	104 104-2700	Building directory, aluminum, black felt panels, 2 doors, 914 mm x 1220 mm		2.835.0
104	150	BULLETIN BOARDS		2,000.0
104	151	BULLETIN BOARD		
	104 151-0100	Bulletin board, cork board, 90 mm x 120 mm, aluminum frame	EA	85.0
	const mem conser-	Bulletin board, cork board, 6.4 mm thick, with vinyl covering, reinforced with 6 mm wooden board back panel, 1200 mm x 900 mm, aluminum frame 17 mm x 15 mm x 2 mm		780.0
	104 151-0120	Bulletin board, cork board, 6.4 mm thick, with vinyl covering, reinforced with 6 mm wooden board back panel, 900 mm x 600 mm, aluminum frame 17 mm x 15 mm x 2 mm		415.0
	104 151-2200	Bulletin board, prefabricated, 6 mm cork, 1.2 m x 2.4 m with aluminum frame		1,250.0
104	300	SIGNS		
04	304	SIGNS:		
	104 304-0100	Sign, cast, aluminum, with 100 mm high & 13 mm deep letters	EA	399.0
		Sign, cast bronze, with 300 mm high & 20 mm deep letters		430.5
		Sign, cast bronze, with 200 mm high & 16 mm deep letters		430.5
		Sign, fabricated stainless steel, with 150 mm high, 50 mm deep letters		115.5
	104 304-2200	Sign, fabricated stainless steel, with 610 mm high, 100 mm deep letters		399.0
	104 304-4800	Signs, reflective aluminum, street signs, double face, 2-way with bracket		819.0
	104 304-5100	Exit signs, 24 ga. aluminum, 360 mm x 300 mm surface mounted	+	231.0
05 05	050	LOCKERS, PROTECTIVE COVERS & POSTA	AL SPI	ECIALTIES
	105 050-0010	Locker, steel, baked enamel, 1.8 m high, 300 mm x 380 mm single tier, single door, average	EA	290.0
	105 050-0300	Locker, steel, baked enamel, 1.9 m high, 900 mm x 450 mm single tier, double door, average		500.0
	105 050-0400	Locker, steel, baked enamel, 1.8 m high, 600 mm x 450 mm two tier, double door, average		350.0
	105 050-0500	Locker, steel, baked enamel, 1.9 m high, 900 mm x 450 mm two tier, four door, average		÷ 680.0
	105 050-0600	Locker, steel, baked enamel, 1.9 m high, 900 mm x 450 mm three tier, six door, average	•	900.0
	105 050-0700	Locker, steel, baked enamel, 1.9 m high, 900 mm x 450 mm three tier, nine door, average	EA	900.0
	ODT - YOU - STATE OF THE STATE	Locker, steel, baked enamel, 1.9 m high, 900 mm x 450 mm three tier, twelve	- ·	
	105 050-0800	door, average Wall mounted lockers, 4 persons with coat bar, 1.2 m wide x 457 mm deep x 305	EA	1,250.0

	9		
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
105 384	CANOPIES	•	
105 384-0700	Canopy, wall hung, fiber glass, 6 m x 3.65 m	EA	10,566.1
105 384-7500	Walkway cover, fiber glass, 5.6 m x 3.66 m, installed on steel structure beams back to back, average	EA	11,628.7
106	PARTITIONS & STORAGE SHELVING		
106 050	WIRE MESH PARTITION		
106 052	PARTITIONS, WOVEN WIRE		
106 052-0600	Partition, woven wire, channel frame, 38 mm diamond mesh, 10 ga. wire, painted wall panels, 1.2 m wide, 3 m high	EA	304.5
106 052-0900	Partition, woven wire, channel frame, 38 mm diamond mesh, 10 ga. wire, painted wall panels, 3 m long, 0.6 m wide	EA	235.2
106 150	DEMOUNTABLE PARTITION		
106 152	PARTITIONS, MOVABLE OFFICE		
106 152-0050	Demountable partition 10 cm thick, fire rated gypsum board 12.5 mm with wall vinyl covering & fiber glass insulation, with aluminum main frame	SQM	240.0
106 152-0100	Demountable partition 10 cm thick, fire rated gypsum board 12.5 mm with wall steel covering & fiber glass insulation, with aluminum main frame	+	310.0
106 152-0150	Demountable partition 10 cm thick, fire rated gypsum board 12.5 mm with wall fabric covering & fiber glass insulation, with aluminum main frame	SQM	290.0
106 152-0200	Demountable half single clear glazed partition 10 cm thick, fire rated gypsum board 12.5 mm with wall vinyl covering & fiber glass insulation, with aluminum main frame		310.0
106 152-0250	Demountable half single clear glazed partition 10 cm thick, fire rated gypsum board 12.5 mm with wall steel covering & fiber glass insulation, with aluminum main frame		380.0
106 152-0300	Demountable half single clear glazed partition 10 cm thick, fire rated gypsum board 12.5 mm with wall fabric covering & fiber glass insulation, with aluminum main frame		360.0
106 152-0350	veneer, 0.88 x 2.10 m	.	1,350.0
106 152-0400	Demountable partition, upright frame of painted extruded aluminum slotted section with 26 mm thick, honey comb core, panelled both sides with 9 mm thick chipboard covered with fabric, 1.6 m L x 1.6 m H x 50 mm thick	UNIT	1,706.0
106 152-0450	Demountable partition, upright frame of painted extruded aluminum slotted section with 26 mm thick, honey comb core, panelled both sides with 9 mm thick chipboard covered with fabric, 2.4 m L x 1.6 m H x 50 mm thick	UNIT	2,623.0
106 152-0900	Demountable partition, vinyl clad gypsum system on 64 mm steel studs, 2.75 m high, 76 mm thick	LM	864.0
106 152-1000	Demountable partition, fabric clad gypsum system on 64 mm steel studs, 2.75 m high, 95 mm thick		497.0
106 152-1300	Demountable partition, steel clad gypsum system on 64 mm steel studs, 2.75 m high, 76 mm thick		938.0
106 152-1900	Demountable partition system, aluminum framing, vinyl clad hardboard, paper honeycomb core panel, 64 mm thick, 2.75 m	+	826.0
106 152-3100	Demountable partition, movable steel walls, modular system, 2.75 m high, 1.2 m wide, baked enamel, prefinished	SQM	938.0
106 152-3200	Demountable partition, movable steel walls, modular system, 2.75 m high, 1.2 m wide, fabric clad steel	SQM	852.0
106 152-5310	Demountable partition, trackless wall, cork finish, semi-acoustic, 40 mm thick, average	SQM	549.0
Article Control of the Control of th	Demountable partition, modular office system, w/ prehung steel door, 76 mm	EA	

CSI	*		COST PER
CODE	ITEM DESCRIPTION	UNIT	UNIT (SR)
106 302	PARTITIONS, HOSPITAL		
106 302-0010	Curtain track, box channel, ceiling mounted	LM	35.0
106 302-0310	Curtain, nylon mesh tops, fire resistant, 370 gram/m2, polyester cloth, 2.75 m ceiling mounted	LM	71.0
106 304	PARTITIONS, PORTABLE		
106 304-2600	Partitions, portable, divider panels, free standing, fiber core, fabric face straight, 1.8 m long, 1.5 m high	LM	665.0
106 304-3750	Acoustical panels, 60 to 90 noise reduction coefficient, 1.5 m long, 1.8 m high	LM	980.0
106 520	PANEL PARTITIONS		
106 522	PARTITIONS, FOLDING LEAF		
106 520-1100	Folding partition, steel, acoustical, 44 to 60 kg/m2, vinyl faced, average	SQM	2,625.0
106 520-1700	Folding partition, aluminum framed, acoustical, to 3.7 m high, 27 kg/m2, average	SQM	2,048.0
106 550	ACCORDION PARTITIONS		
106 552	PARTITIONS, FOLDING ACCORDION		
106 552-0300	Partitions, folding accordion, vinyl covered, frame not included, residential, 6 kg/m2, 2.4 m maximum height	SQM	1,312.0
106 552-0600	Partitions folding according vinyl covered frame not included commercial 9.7	SQM	1,838.0
106 552-0900	Partitions folding according vinyl covered frame not included accoustical 15	SQM	2,363.0
106 750	STORAGE & SHELVING		
106 752	PARTS BINS		
106 750-0100	Parts bins, metal, gray baked enamel finish, 1.9 m high, 914 mm wide, 12 bins, 457 x 300 mm, 300 mm deep	EA	970.0
106 754	SHELVING	M-0-1-2-3	
106 754-0100	Shelving, metal, industrial, cross-braced, 2000 mm height, 970 mm length, 300 mm depth, 7 shelf levels (6 opening), 200 kg/level capacity	EA	403.0
106 754-1500	Shelving, fully enclosed, sides and back, 914 mm wide, 300 mm deep		567.0
106 754-4000	Shelving, pallet rack, steel frame, 2 m height, 2.5 m length, 900 mm depth, 3100 kg/level capacity, 3 level		1,645.00
107	TELEPHONE SPECIALTIES		
107 550	TELEPHONE ENCLOSURES		
107 551	TELEPHONE ENCLOSURE		
107 550-0300	Telephone enclosure, shelf type, wall hung, average	EA	1,650.00
	Telephone enclosure, booth type, painted steel, indoor or outdoor, average		12,000.00
107 550-0600	Telephone enclosure, outdoor, acoustical, on post	+	3,750.00
manage of the same	receptione enclosure, outdoor, acoustical, oil post		
107 550-1300	TOILET & BATH ACCESSORIES		
107 550-1300 108	Process Control of the Control of the Annual Control of the Annual Control of the	**	a sanata a saap a saap
107 550-1300 108 108 200	TOILET & BATH ACCESSORIES	my sz.	
107 550-1300 108 108 200 108 204	TOILET & BATH ACCESSORIES BATH ACCESSORIES	EA	
107 550-1300 108 108 200 108 204 108 204-0200	TOILET & BATH ACCESSORIES BATH ACCESSORIES BATHROOM ACCESSORIES		130.20
107 550-1300 108 108 200 108 204 108 204-0200 108 204-0300	TOILET & BATH ACCESSORIES BATH ACCESSORIES BATHROOM ACCESSORIES Curtain rod, stainless steel, 1.5 m long, 32 mm diameter		. 130.20

CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
108 204-1100	Grab bar, straight, 32 mm diameter, stainless steel, 914 mm long		109.0
108 204-1150	Grab bar, 2.5 cm dia., 60 cm long, chrome		124.0
108 204-1200	Grab bar, straight, 38 mm dia., stainless steel, 610 mm long		407.0
108 204-1500	Tub bar, stainless steel, 32 mm diameter, 610 mm x 914 mm		407.0
108 204-2350	Hand dryer, stainless steel 1000 watt wall mounted		735.0
108 204-2600	Coat strip, stainless steel, 4 hook, 914 mm long		245.0
108 204-2700	Coat strip, chrome, 4 hook		110.0
108 204-3200	Mirror with stainless steel frame, 1200 mm x 750 mm		668.0
108 204-3300	Mirror with stainless steel frame, 1.7 m x 600 mm		1,239.0
108 204-3700	Mirror with 127 mm stainless steel shelf, 20 mm sq. frame, 1220 x 610 mm		1,628.0
	Mop holder strip, stainless steel, 5 holders, 1220 mm long		389.0
	Napkin/tampon dispenser, recessed		2,507.0
108 204-4300	Napkin/tampon dispenser, recessed 27 x 14 x 7 cm, chrome		184.0
A CONTRACTOR OF THE PROPERTY OF	Soap dispenser, stainless steel, surface mounted, liquid	1-1-1	139.0
108 204-4650	Soap dispenser, 1/2 liter, chrome, surface mounted, liquid		139.0
	Soap dispenser, chrome, surface mounted, powder		155.0
	Soap dispenser, recessed, stainless steel, liquid		693.0
A PARTY OF THE PAR	Soap dispenser, recessed, stainless steel, powder		449.0
	Soap dish, stainless steel, surface mounted	+++	180.0
	Soap dish, chrome+glass, surface mounted		50.0
	Soap dish chrome, recessed	1-1-1	120.0
	Soap dish, with grab bar surface mounted		187.0
	Soap dish, with grab bar recessed		187.0
A STATE OF THE STA	Shelf, stainless steel, 127 mm wide, 18 ga., 610 mm long		199.0
	Shelf, chrome with brackets + glass shelf	EA	137.0
	Toilet seat cover dispenser, stainless steel, recessed		245.0
New York Leven	Toilet seat cover dispenser, stainless steel, surface mounted		116.0
108 204-6100	Toilet tissue dispenser, surface mounted, stainless steel, single roll		251.0
AND THE RESERVE TO THE PARTY OF	Toilet tissue dispenser, surface mounted, chrome, single roll	1111	251.0
108 204-6500	Towel bar, stainless steel, 760 mm long	1 1 1	110.0
108 204-6550	Towel bar, stainless steel, 50 mm long		40.0
	Towel dispenser, stainless steel, surface mounted		358.0
- According Advanced for the Control	Towel dispenser, chrome, surface mounted		170.0
108 204-7000	Towel holder, hotel type, 2 guest size		100.0
	Swing towel holder, chrome	EA	80.0
	Towel shelf, stainless steel, 610 mm long, 200 mm wide		127.0
	Towel rack, chrome		127.0
	Tumbler holder		Whitever
	Tumbler holder, chrome + glass	1 1	55.0 175.0
108 204-7505		+ + +	175.0
	Paper holder with cover		20.0
	Wall urn ash receiver, surface mount, 280 mm long		65.0
	Waste receptacles, stainless steel, with top, 50 liter	+++	1,060.0

CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
108 204-8100	Waste receptacles, chrome, with cover	+	159.00
108 208	MEDICINE CABINETS		
108 208-0010	Medicine cabinets, with mirror, stainless steel frame, 400 mm x 560 mm, unlighted	EA	1,062.00
108 208-0020	Medicine cabinets, instruments with two glass doors		1,125.00
108 208-0030	Medicine cabinets, top glass/down metal		1,125.00
108 208-0040	Medicine cabinets, stainless steel, sliding mirror doors, 600 mm x 480 mm x 210 mm, lighted		409.00
108 208-0500	Medicine cabinets, metal with aluminum frame, sliding mirror doors, 1780 mm x 800 mm x 360 mm	+	1,050.00
108 800	SCALES		
108 801	SCALES		
108 801-0300	Scales, dial type, 5 metric ton capacity, 3.5 m x 2.5 m platform	EA	24,000.00
108 801-0400	Scales, 10 metric ton capacity, steel platform, 2.4 m x 2 m platform		16,000.00
108 801-1100	Truck scales, incl. steel weigh bridge, dial type, mech., 18 m x 3 m platform, 80 metric ton capacity		98,000.00
108 801-1640	Truck scale, digital electronic, 60 metric ton capacity, 15 m x 3 m platform		88,000.00
108 801-3300	Low profile electronic warehouse scale, not incl. printer, 2 m x 1.5 m platform, 5 metric ton capacity	+	24,500.00
109	WARDROBE & CLOSET SPECIALTIES		
109 010	COAT RACKS/WARDROBES		
109 011	COAT RACKS & WARDROBES		
		EA	

Division 11 Equipment

DMRIO	N 11: EQUIPMENT	Model consta	
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
110	EQUIPMENT	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
110 200	SECURITY / VAULT EQUIPMENT		
110 261	SAFE:		
110 261-0100	Safe for offices 4 hours rating 1.5 m x 0.8 m x 0.5 m	EA	00.700.0
110 261-0200	Coto office 1 house white a stand disc. 1 and 2		20,708.0
110 261-0300	Safe office 1 hour rating outernal dimension 1000 1000		7,560.0
110 261-0400	Safe office 1 hour rating external dispersion 1950		8,662.5
110 261-0800			10,185.0
110 300	TELLER & SERVICE EQUIPMENT		1,512.0
110 301	BANK EQUIPMENT:		
110 301-3100	Bank undercounter with cash tray	STATION	2,588.0
110 301-4600	Bank Teller door, 2125 mm x 1014 mm, weight 140 kgs	EA	9,318.0
110 301-5560	Bank safety deposit boxes, 75 mm x 255 mm opening, average	OPENING	6,258.0
110 301-5570	Bank safety deposit boxes, 1255 mm x 255 mm opening, average		4,436.0
110 301-5580	Bank safety deposit boxes, 255 mm x 255 mm opening, average	•	3,491.0
110 301-5800	Bank pass through window, bullet-resist screen., 32 mm polycast material	SQM	3,0 34.5
	Bank Twenty four(24) hour teller, single unit, automated deposit, cash and memo	SQM	136,500.0
110 400	ECCLESIASTICAL EQUIPMENT		
110 401	MOSQUE EQUIPMENT:		
110 401-0050	Book shelve unit, hardwood, 1.0 m high, 1 m long, 300 mm wide, including handling, shelves at 300 mm O.C.	EA	630.00
110 401-0100	Chandelier, crystal, 3 meter diameter, with winch., 5 meter high, average		165,217.50
110 401-0150	Chandelier, crystal, 3 meter diameter, with winch., 7 meter high, average		197,274.00
	Mihrab 2.5 m high, 1.2 m wide, oak veneer casement including furring.	\rightarrow	5,250.00
	Minbar,wood,deluxe, w/10 riser, solid cherry, and with built-in microphone		
	Minaret crescent bronze upto 2 m high		10,500.00
110 401-2000	Sound system equipment,rack with amplifier,tape recorder and 4 minaret loud speakers		59,220 00
110 500	LIBRARY EQUIPMENT		11,555.00
110 501	LIBRARY EQUIPMENT:		
110 501-1010	Bookshelf, steel, 2.30 m high, 250 mm shelf, double face	EA	D FOE 75
	Bookshelf, steel, 2.30 m high, 250 mm shelf, single face		2,535 75
	Bookshelf, steel, 2.30 m high, 200 mm shelf, single face		1,843.00
			1,657.95
	Bookshelf, steel, 2.30 m high, 300 mm shelf, single face		2,027.00
	Bookshelf, steel, 2.30 m high, 2.10 m shelf, single face		1,823.85
	Manager Of the same of the same		1,021.65
110 501-1100	Magazine Shelving, 2.30 m high, 300 mm deep, sigle face		
110 501-1100	Carrels, hardwood, 910 mm x 610 mm, average	-	1,575.00
110 501-1100 110 501-2500 110 600		1	1,575.00
110 501-1100 110 501-2500 110 600 10 601	Carrels, hardwood, 910 mm x 610 mm, average THEATER / STAGE EQUIPMENT STAGE EQUIPMENT:	<u> </u>	1,575.00
110 501-1100 110 501-2500 110 600 10 601	Carrels, hardwood, 910 mm x 610 mm, average THEATER / STAGE EQUIPMENT	EA	1,575.00
110 501-1100 110 501-2500 110 600 110 601 110 601-0100	Carrels, hardwood, 910 mm x 610 mm, average THEATER / STAGE EQUIPMENT STAGE EQUIPMENT:	EA LM	

			COCT DED
CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
110 601-2500	Stage Spotlight, follow spot, with transformer, 2500 W	EA	6,153.0
110 601-3000	Stage Light Stationery spot, fresnel quartz, 200 mm lens, 2500 W		1,963.5
110 601-3100	Stage Light, spotlight, par 64 black with color frame		309.7
110 601-3500	Stage Light Ellipsoidal quartz, 1000 W, 300 mm lens	+	1,102.5
10 604	MOVIE EQUIPMENT:		
110 604-2600	Movie projector, 16 mm with pedestal, 24 V - 250 W Halogen lamp, average	EA	12,600.0
110 604-2610	Movie projector, 16 mm with pedestal, 550 W Xenon-arc lamp, average	EA	25,200.0
110 604-3000	Projection screens, rigid, in wall, acrylic, 6 mm thick	SQM	1,009.0
110 604-3300	Projection screens,rigid,acrylic,13 mm thick	SQM	1,176.0
110 604-3320	Theater projection screens, matte white, including frames	SQM	105.0
111 020	BARBER SHOP EQUIPMENT		
111 021	BARBER EQUIPMENT:		
111 021-0050	Chair, hydraulic, movable, average	EA	9,450.0
111 021-0200	Wall hung styling station with mirrors, average	EA	2,625.0
111 040	CASH REGISTER / CHECKING		
111 041	CHECKOUT COUNTER:		
111 041-0010	Checkout Counter, Supermarket conveyor, 2 m long, single belt	EA	8,925.0
111 041-0020	Checkout Counter, Supermarket conveyor, 2.5 m long, single belt		12,180.0
111 041-2000	Register, cashier, average		1,575.0
111 041-2100	Register, cashier, IBM	—	11,983.0
111 050	DISPLAY CASES		
111 051	REFRIGERATED FOOD CASES:		
111 051-0500	Freezer,self contained,upright,glass door, 2.18 m3	EA	19,000.0
111 051-0600	Frozen food, chest type 3.6 m long	EA	3,918.0
111 100	LAUNDRY / DRY CLEANING		
111 101	LAUNDRY EQUIPMENT:		
111 101-2050	Dry cleaners, electric, 12 kg capacity	EA	45,176.8
111 101-2150	Dry cleaners, electric, 27 kg capacity		83,125.0
111 101-3600	Folders, blankets & sheets		97,963.0
111 101-4500	Ironers, institutional, 2.8 m, single roll		204,282.0
111 101-6200	Combination washer/extractor, 23 kg capacity	<u> </u>	30,215.0
111 320	PROJECTION SCREENS		
111 321	PROJECT SCREENS:		
111 321-0100	Projection screens, wall or ceiling hung, glass beaded, manually operated, average	SQM	168.0
111 321-1200	Projection screens, heavy duty, electric operated, 18 SQM	SQM	6,615.0
111 400	SERVICE STATION EQUIPMENT	a Sell	a rie a raisel es
111 401	AUTOMOTIVE:		
111 401-0600	Air compressors, electric, 5 HP, 220 V, standard controls or dual controls	EA	11,025.0
111 401-1100	Diesel /Gasoline dispenser, 84 Liter per minute, complete with connections	EA	13,650.0
	Hydraulic lift (piston) air or oil operated, 5 Ton capacity	EA	14,700.0
111 401-2850	Hydraulic lift (piston) air or oil operated, 7 Ton capacity		18,900.0
111 401-2950	Hydraulic lift (piston) air or oil operated, 14 Ton capacity	+	28,840.0

SWEILS	N 11: EQUIPMENT		
CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
111 401-3000	Lube equipment, with grease & oil pump, oil & grease reel with valve, not including piping	SET	18,900.0
111 500	PARKING CONTROL EQUIPMENT		
111 501	PARKING EQUIPMENT:		
111 501-0500	Parking equipment, automatic gate barrier, 1/3HP motor connected to a heavy duty gear reducer, microprocessor based controller and 3 m single wood gate arm painted with black and white diagonal stripes	EA	13,125.00
111 501-1400	Parking equipment, ticketter,to dispense a time and date stamped ticket, 50 mm x 100 mm size, including a lighted clock face 0-23 hours/minutes, "Please Take Ticket" sign, operated by loop detector		20,085.00
111 501-3500	Parking equipment, passport plus card reader on stand with module and power supply		10,500.00
111 501-3600	Parking equipment, passport plus hand held computer with access software		6,300.0
111 501-3700	Parking equipment, auditor powerpad fee computer with universal power supply, cash drawer and cables, basic software including two fee tables, six attendants, 15 statistical reports		34,505.00
111 501-3800	Parking equipment, fee display with 25 mm LCD characters, booth mount	+	6,300.00
111 600	LOADING DOCK EQUIPMENT	C	
111 601	LOADING DOCK:		
	Loading dock, bumpers rubber blocks 114 mm thick, 250 mm high, 350 mm long	EA	236.2
111 601-0020	Loading dock, bumpers rubber blocks 150 mm thick, 500 mm high, 280 mm long		493.50
111 601-0030	Loading dock, bumpers rubber blocks molded L-shape 450 mm x 450 mm x 100 mm(L x W x T)		753.90
111 601-0040	Loading dock, bumpers rubber blocks laminated 350 mm x 250 mm x 100 mm (LXWXT)		462.00
111 601-0920	Loading dock, extruded rubber bumpers, T section, 560 mm x 560 mm x 76 mm		236.25
111 601-4400	Loading dock platform lifter, fixed, 1.8 m x 2.4 m, 2 ton capacity		28,350.00
	Loading dock,levelers,hydraulic for trucks 10 ton capacity, 2.1 m x 1.8 m		15,225.00
	Loading dock, levelers, hydraulic for trucks 20 ton capacity, 2.1 m x 3.6 m		30,607.50
111 601-4900	Loading-dock,levelers,mechanical for trucks 10 ton capacity, 2.1 m x 1.8 m	▼	11,865.00
11 700	WASTE HANDLING EQUIPMENT		
111 700-0010	Waste handling, compactors, 120V, 110 kg/hr, chute fed	EA	39,249.00
111 700-1150	Heavy duty industrial compactor, upto 4 CUM capacity		97,891.00
	Combination shredder / compactor 2200 kg/hr.		163,152.00
	Incinerator, electric, 45 kg/ hour, average		38,728.00
	DETENTION EQUIPMENT		30,720.00
11 901	DETENTION EQUIPMENT		
AND LONG TO THE RESERVE	Bar front, rolling, 22 mm bars, 100 mm O.C., 2.1m high, 1.5 m wide, with	1	
111 901-0300	hardware	EA	11,845.00
111 901-1000	Detention, doors and frames, 915 x 2.1m, complete, w/hardware	EA	8,791.00
114	FOOD SERVICE, RESIDENTIAL, DARKE ATHLETIC EQUIPMENT	ROOM,	
114 000	FOOD SERVICE EQUIPMENT		
Piletine in the second	APPLIANCES		
	Cooking range, free standing, 1 oven, 4 burners stainless steel	EA	11,450.00
	Counter top cook top, 4-burner, standard, average		11,450.00

114 002-2200	ITEM DESCRIPTION	UNIT	UNIT (SR)
	Deep freeze, painted white, 80 x 70 x 85cm		2,200.00
114 002-2210	Deep freezer,painted white, 150 x 70 x 85cm		3,950.00
- Controlled to the second	Under counter dishwasher	+	10,000.0
	Domestic dishwasher	EA	3,200.0
G and the area of the contract	Hand Dryer 30S, 10 A surface, revolving nozzle stanped white		1,250.0
and the street owner or anneal pain	Domestic dryer, average		2,600.0
	Dryer, coin-operation or without coin-operartion		12,711.0
	Food waste disposer. 1HP		2,200.0
Committee to the committee of the commit	The state of the s		1,980.0
114 002-3305			1,800.0
Contract of the Contract of th	Domestic type hood for range		9,250.0
The second control of	Wall type exhaust hood, stainless steel		13,500.0
	Refrigerator cabinet type, 2 door, 220V/ 1Ph/ 60Hz, Temp: 0-10C°		3,680.0
The second secon	Domestic upright refrigerator		1
114 002-6650	Domestic washing machine automatic Washing machine, electric vegetable washing and drying machine with a washing		3,600.0
114 002-6670	capacity of 5kg in 2-3 minutes.		10,350.0
114 002-7400		*	2,152.0
14 004	KITCHEN EQUIPMENT:		
114 004-0010	Single deck bake oven with base, 2 pan bake oven, stainless steel, 220V/1-3P/ 60Hz	EA .	23,500.0
114 004-0015	No. 100 Control of the Approximation of the Section		24,708.0
114 004-1300	Broiler 36" counter top, 240/1P/60Hz, thermostatically controlled, 300 to 700FH. 5 heavy duty grates, 914 x 635 x 394mm.		9,500.0
114 004-1400	Broiler 24" counter top, 240/1P/60Hz, thermostatically controlled, 300 to 700FH, 3 heavy duty grates, 610 x 635 x 394mm.		7,250.0
114 004-1405	Broiler without oven, standard		9,460.0
114 004-1410	Broiler without oven, standard 600mm wide		12,490.0
Martin Steel Control of the Control	Coffee URN twin tank, 25 gallons/hour		16,640.0
	Coffee URN twin tank, 6 gallons/ hour, 5.3KW, 2W, 27A, 150KVA Trans. f/		T
114 004-1855	pump.		11,000.0
114 004-2350	The state of the s		17,042.
114 004-2355	Refrigerated table work top size: 1832 x 700 x 580H, -2 to +10C° with 3-doors		17,000.
114 004-2360	Twin tank juice dispenser, 20 liter capacity/ tank		5,750.0
114 004-2365	Deverage dispenser with 2 separate bowls, capacity 37 Ltrs. Bowl cap. 18.5 Ltrs.		3,500.
114 004-2700	Dishwasher upright, 9-kw rinse booster, 1.2kw wash pump, 1200 dish/ hr wash cap.	100	17,500.
114 004-2710	Dishwasher, undercounter dishwasher, 780-700 dishes per hour, stainless steel.		10,288.
114 004-2715	rotating, wash and rinse arms.	+	10,000.
114 004-2720	Dishwasher left to right w/dryer, rack conveyor, with blower dryer, 6 Kw, incl. 5 racks from left to right, pump, 3HP, tank, heater, 9Kw washing capacity 2160 plates/ hr.	EA	88,500.
114 004-2725	Dishwasher, hood type with capacity of 1280-1920 dish/ hour	75 8 77	44,750.
	Food mixers, 17.5 liters capacity, 2-speed, stainless steel	03,13	27,450.
	Food mixers, aluminum grey, floor stand, 220V/1P/60Hz, 20Ltrs.		17,250.
	Freezers, reach-in 2.33 M³, double door, 220V/1P/60Hz, 1440 x 800 x 2020H		16,500.
114 004 4000	Freezers, reach-in 1.16 M³, single door, 220V/1P/60Hz, 720 x 800 x 2020H		11,000.

CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
	0 Fryer, deep, double bowl 15 liters each, 80 x 90 x 85cm, stainless steel.		15,690.0
	5 Fryer, single, 12 Liter, 220-400/3P/60Hz,		7,500.0
	0 Gas griddle on open cabinet, 80 x 90 x 85cm		11,176.0
114 004-555	5 Griddle counter Tops 48", S/S front side & top, aluminum steel		7,250.0
	0 Ice cube maker, 90kg/24 hour, 76 x 61 x 93cm		9,930.0
	0 Ice cube maker, 260 kg/ 24 hour, 90 x 76 x 107cm		13,250.0
	5 Ice maker maker, 100Kgs/ day, 230V/ 1Ph/ 60Hz		9,250.0
	O Compact under counter ice making machine, storage capacity 290 Lbs.		11,500.0
	0 Gas boiling pan 150 liters indirect heat, 80 x 90 x 85cm		24,415.0
114 004-636	Gas boiling pan 100 liters indirect heat, 80 x 90 x 85cm		23,960.0
	Tri leg stationary kettle, 40 gallon with double pantry faucet		38,750.0
114 004-690	Gas cooking range with 6-burners and oven, 120 x 90 x 85cm		11,450.0
114 004-690	ger stem out official basing round, o open buillers		8,750.0
114 004-885	Steamer, electric 16.5 KW, stainless steel		25,250.0
114 004-8860	Self cooking centre with UG 11 stand, rack height 1.60M, cap. 6x1/1 GN. 30 to 80 meal/ day, width 847mm, depth 771mm, height 757mm, connected load 10Kw.		20,300.00
114 004-8870	Coffee machine, with 1 or 2 brewing groups and electronic dosage, 10 liters		16,750.00
114 004-8880	Salad Bar unit capacity 197kg.	+	22,000.00
114 740	DARKROOM PROCESSING		
114 741	DARKROOM EQUIPMENT:		
114 741-0250	Darkroom equipment, developing sink, 250 mm deep, with standard accessories	EA	20,414.00
114 741-0650	Darkroom Dryers, dehumidified filtered air, 1.2 m x 635 mm x 1.7 m high		10,815.00
114 741-2000			
	/ Darkfooth Processors, automatic, color print, average	4.	No. of the contract of the con
114 760	asioniano, color print, average	•	No. of the contract of the con
	REVOLVING DARKROOM DOORS DARKROOM DOORS:	+	No. of the contract of the con
	REVOLVING DARKROOM DOORS DARKROOM DOORS:	OPENING	25,750.00
114 768 114 768-0020	REVOLVING DARKROOM DOORS DARKROOM DOORS: Darkroom Revolving door, standard, 2 way, 1m diameter	OPENING	25,750.00
114 768 114 768-0020 114 800	REVOLVING DARKROOM DOORS DARKROOM DOORS: Darkroom Revolving door, standard, 2 way, 1m diameter ATHLETIC / RECREATIONAL	OPENING	25,750.00
114 768 114 768-0020 114 800 114 801	REVOLVING DARKROOM DOORS DARKROOM DOORS: Darkroom Revolving door, standard, 2 way, 1m diameter ATHLETIC / RECREATIONAL HEALTH CLUB EQUIPMENT:		25,750.00 10,475.00
114 768 114 768-0020 114 800 114 801 114 801-0050	REVOLVING DARKROOM DOORS DARKROOM DOORS: Darkroom Revolving door, standard, 2 way, 1m diameter ATHLETIC / RECREATIONAL HEALTH CLUB EQUIPMENT: Abdominal board,upholstered	OPENING EA	25,750.00 10,475.00
114 768 114 768-0020 114 800 114 801-0050 114 801-0200	REVOLVING DARKROOM DOORS DARKROOM DOORS: Darkroom Revolving door, standard, 2 way, 1m diameter ATHLETIC / RECREATIONAL HEALTH CLUB EQUIPMENT: Abdominal board, upholstered Bicycle trainer		25,750.00 10,475.00 9,045.75
114 768 114 768-0020 114 800 114 801 114 801-0050 114 801-1300	REVOLVING DARKROOM DOORS DARKROOM DOORS: Darkroom Revolving door, standard, 2 way, 1m diameter ATHLETIC / RECREATIONAL HEALTH CLUB EQUIPMENT: Abdominal board, upholstered Bicycle trainer Treadmill manual		25,750.00 10,475.00 9,045.75 2,314.00
114 768 114 768-0020 114 800 114 801 114 801-0050 114 801-1300 114 801-1400	REVOLVING DARKROOM DOORS DARKROOM DOORS: Darkroom Revolving door, standard, 2 way, 1m diameter ATHLETIC / RECREATIONAL HEALTH CLUB EQUIPMENT: Abdominal board, upholstered Bicycle trainer Treadmill manual Treatment massage table, average		25,750.00 10,475.00 9,045.75 2,314.00 2,958.00
114 768 114 768-0020 114 800 114 801 114 801-0050 114 801-1300 114 801-1400 114 805	REVOLVING DARKROOM DOORS DARKROOM DOORS: Darkroom Revolving door, standard, 2 way, 1m diameter ATHLETIC / RECREATIONAL HEALTH CLUB EQUIPMENT: Abdominal board, upholstered Bicycle trainer Treadmill manual Treatment massage table, average SCHOOL EQUIPMENT:	EA	25,750.00 10,475.00 9,045.75 2,314.00 2,958.00
114 768 114 768-0020 114 800 114 801 114 801-0050 114 801-1300 114 801-1400 114 805-1000	REVOLVING DARKROOM DOORS DARKROOM DOORS: Darkroom Revolving door, standard, 2 way, 1m diameter ATHLETIC / RECREATIONAL HEALTH CLUB EQUIPMENT: Abdominal board, upholstered Bicycle trainer Treadmill manual Treatment massage table, average SCHOOL EQUIPMENT: Basketball backstops, wall mounted, 1.8 m extended, fixed, average		25,750.00 10,475.00 9,045.75 2,314.00 2,958.00 2,652.00 5,562.00
114 800 114 801 114 801-0050 114 801-0200 114 801-1300 114 801-1400 114 805 114 805-4200	REVOLVING DARKROOM DOORS DARKROOM DOORS: Darkroom Revolving door, standard, 2 way, 1m diameter ATHLETIC / RECREATIONAL HEALTH CLUB EQUIPMENT: Abdominal board, upholstered Bicycle trainer Treadmill manual Treatment massage table, average SCHOOL EQUIPMENT: Basketball backstops, wall mounted, 1.8 m extended, fixed, average Exercise ladder, 4.8 m x 480 mm, suspended	EA	9,045.75 2,314.00 2,958.00 2,652.00
114 768 114 768-0020 114 800 114 801 114 801-0050 114 801-1300 114 801-1400 114 805-1000 114 805-4200 114 805-4210	REVOLVING DARKROOM DOORS DARKROOM DOORS: Darkroom Revolving door, standard, 2 way, 1m diameter ATHLETIC / RECREATIONAL HEALTH CLUB EQUIPMENT: Abdominal board, upholstered Bicycle trainer Treadmill manual Treatment massage table, average SCHOOL EQUIPMENT: Basketball backstops, wall mounted, 1.8 m extended, fixed, average Exercise ladder, 4.8 m x 480 mm, suspended High bar, floor plate attached	EA	25,750.00 10,475.00 9,045.75 2,314.00 2,958.00 2,652.00 5,562.00 2,987.00
114 768 114 768-0020 114 800 114 801-0050 114 801-0200 114 801-1300 114 801-1400 114 805-1000 114 805-4200	REVOLVING DARKROOM DOORS DARKROOM DOORS: Darkroom Revolving door, standard, 2 way, 1m diameter ATHLETIC / RECREATIONAL HEALTH CLUB EQUIPMENT: Abdominal board, upholstered Bicycle trainer Treadmill manual Treatment massage table, average SCHOOL EQUIPMENT: Basketball backstops, wall mounted, 1.8 m extended, fixed, average Exercise ladder, 4.8 m x 480 mm, suspended High bar, floor plate attached	EA	25,750.00 10,475.00 9,045.75 2,314.00 2,958.00 2,652.00 5,562.00 2,987.00 7,725.00
114 768 114 768-0020 114 800 114 801 114 801-0050 114 801-1300 114 801-1400 114 805-1000 114 805-4200 114 805-4210 114 805-4240	REVOLVING DARKROOM DOORS DARKROOM DOORS: Darkroom Revolving door, standard, 2 way, 1m diameter ATHLETIC / RECREATIONAL HEALTH CLUB EQUIPMENT: Abdominal board, upholstered Bicycle trainer Treadmill manual Treatment massage table, average SCHOOL EQUIPMENT: Basketball backstops, wall mounted, 1.8 m extended, fixed, average Exercise ladder, 4.8 m x 480 mm, suspended High bar, floor plate attached	EA	25,750.00 10,475.00 9,045.75 2,314.00 2,958.00 2,652.00 5,562.00 2,987.00 7,725.00
114 768 114 768-0020 114 800 114 801 114 801-0050 114 801-1300 114 801-1400 114 805-1000 114 805-4200 114 805-4210	REVOLVING DARKROOM DOORS DARKROOM DOORS: Darkroom Revolving door, standard, 2 way, 1m diameter ATHLETIC / RECREATIONAL HEALTH CLUB EQUIPMENT: Abdominal board, upholstered Bicycle trainer Treadmill manual Treatment massage table, average SCHOOL EQUIPMENT: Basketball backstops, wall mounted, 1.8 m extended, fixed, average Exercise ladder, 4.8 m x 480 mm, suspended High bar, floor plate attached Parallel bars	EA	25,750.00 10,475.00 9,045.75 2,314.00 2,958.00 2,652.00
114 768 114 768-0020 114 800 114 801 114 801-0050 114 801-1300 114 801-1400 114 805-1000 114 805-4200 114 805-4210 114 805-4240	REVOLVING DARKROOM DOORS DARKROOM DOORS: Darkroom Revolving door, standard, 2 way, 1m diameter ATHLETIC / RECREATIONAL HEALTH CLUB EQUIPMENT: Abdominal board,upholstered Bicycle trainer Treadmill manual Treatment massage table, average SCHOOL EQUIPMENT: Basketball backstops, wall mounted, 1.8 m extended, fixed, average Exercise ladder, 4.8 m x 480 mm, suspended High bar, floor plate attached Parallel bars INDUSTRIAL & PROCESS EQUIPMENT INDUSTRIAL EQUIPMENT	EA	25,750.00 10,475.00 9,045.75 2,314.00 2,958.00 2,652.00 5,562.00 2,987.00 7,725.00
114 768 114 768-0020 114 800 114 801 114 801-0050 114 801-1300 114 801-1400 114 805-1000 114 805-4210 114 805-4210 114 805-4240	REVOLVING DARKROOM DOORS DARKROOM DOORS: Darkroom Revolving door, standard, 2 way, 1m diameter ATHLETIC / RECREATIONAL HEALTH CLUB EQUIPMENT: Abdominal board, upholstered Bicycle trainer Treadmill manual Treatment massage table, average SCHOOL EQUIPMENT: Basketball backstops, wall mounted, 1.8 m extended, fixed, average Exercise ladder, 4.8 m x 480 mm, suspended High bar, floor plate attached Parallel bars INDUSTRIAL & PROCESS EQUIPMENT	EA	25,750.00 10,475.00 9,045.75 2,314.00 2,958.00 2,652.00 5,562.00 2,987.00 7,725.00

CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
115 011-4300	Welder AC arc, 230 A capacity	EA	1,390.00
116	LABORATORY, PLANETARIUM, OBSERVATORY EQUIPMENT		
116 000	LABORATORY EQUIPMENT		
116 001	LABORATORY EQUIPMENT:		
116 001-0010	Laboratory, cabinets, base, door units, metal	LM	2,350.0
	Laboratory cabinet, drawer units	LM	550.00
entered in the language of the second control of	Laboratory, counter tops, not incl. base cabinets, stainless steel, average	SQM	1,850.00
116 001-2020	Laboratory Fume hood, with countertop & base, not including HVAC, simple	LM	23,750.0
117	MEDICAL EQUIPMENT		
117 100	HOSPITAL EQUIPMENT		
117 102	CARDIAC EQUIPMENT:		
117 102-0300	External cardiac compressor	EA	1,400.00
117 102-0400	External transthoracic stimulation through external adhesive electrodes,	EA	
117 104	complete with adapter cable & disposable electrodes		15,682.2
	CLEAN ROOM EQUIPMENT:	F.4	
With the Company of the Company	Scrub station, stainless steel base, 1 bay 0.8 m Stainless steel warm cabinet, solution 762 mm x 1880 mm x 457 mm	EA EA	31,820.0
117 110	DENTAL EQUIPMENT	LA	46,103.70
117 110	DENTAL EQUIPMENT:	***	
	Air compressor, average	EA	2 500 00
	Air compressor, oil free,wooden cabinet with ventilation and sound insulation		3,500.00
			11,995.00
	Chair, electric or hydraulic, average		7,000.00
	Dental treatment unit complete with all accessories		29,500.00
	X-ray unit, wall, average	*	11,013.50
117 120 117 120-0300	EMERGENCY EQUIPMENT:	EA	44 005 0
OF DEAL STREET, STREET	Plaster sink complete Scale physician's, with height rod, made in USA	EA	14,025.60
117 130	HYDROTHERAPY EQUIPMENT:	EA	2,625.00
	Whirlpool bath, fixed, including mixing valves, stainless steel, 90 imperial gallon	EA	28,948.00
117 130-0700	Paraffin bath 325 K, auto controlled	EA	3,454.00
117 140	INHALATION THERAPY EQUIPMENT:		
117 140-0100		EA	36,722.00
117 140-0200	Lung air volume tester	EA	57,894.48
117 150	LABORATORY EQUIPMENT:		
117 150-0200	Fully automatic water still , with built -in solenoid valve	EA	11,000.00
117 150-0250	Distiller, water, steam heated 40 gallon		36,050.00
117 150-0300	Laboratory sterilizer, counter top, 3.31 liter capacity		13,500.00
117 150-0400	Laboratory sterilizer, counter top, 510 mm x 1010 mm x 530 mm		11,400.00
	Refrigeration, blood bank 0.47 CUM reach-in.		38,800.00
117 155	LAUNDRY HOSPITAL EQUIPMENT: See also div.	111-101	
	Dryer steam 200 kg	EA	55,000.00

DIVISIO	N 11: EQUIPMENT		
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
117 155-0700	Folder 4 lane	+	180,250.00
117 165	MORTUARY EQUIPMENT:		
117 165-0100	Autopsy table average	EA	72,100.00
117 165-0400	Mortuary refrigerator, end operated, 6 capacity	31	154,500.00
117 174	NURSING STATION EQUIPMENT:	man and the state of the state	¥
117 174-0200	Stainless steel, nourishment station, 72" x 30" x 80"	EA	174,585.00
117 180	OBSTETRICAL & NURSERY EQUIPMENT:		
117 180-0100	Delivery table	EA	32,000.00
117 180-0200	Incubator with complete accessories	EA	13,000.00
117 182	PHYSICAL THERAPY EQUIPMENT:		
117 182-0200	Exercise chair	EA	4,201.00
117 182-0400	Treadmill, adjustable	EA	20,696.00
117 190	STERILIZERS:		
117 190-0200	Sterilizer with water ejector, general service, high vacuum with loading cart,transfer carriage, recessed model, 610 mm x 914 mm x 1524 mm	EA	470,457.00
117 192	SURGICAL EQUIPMENT:		
117 192-0100	Surgery table, minor, average	EA	16,500.00
117 192-0200	Surgery table, major, average		35,000.00
117 192-0300	Surgical light single arm		11,250.00
117 192-0500	Surgical light triple arm		15,000.00
117 192-0600	scrub surgical, stainless steel, single station, average	+	39,400.00
117 198	X-RAY EQUIPMENT:		
117 198-0300	X-ray wall mounted, chest	EA	11,330.00
117 198-0400	X-ray automatic processor		135,187.00
117 198-0600	X-ray viewing equipment average	+	2,750.00

Division 12 Furnishings

CSI			COST PER
CODE	ITEM DESCRIPTION	UNIT	UNIT (SR)
123	MANUFACTURED CASEWORK		7.00
123 010	METAL CASEWORK		
123 015	KEY CABINETS:		
123 015-0010	Key cabinet wall mounted, 60 key capacity	EA	235.00
123 015-0200	Key cabinet wall mounted, drawer type, 600 key capacity		1,560.00
123 015-0500	Key cabinet, tray type, 50 key capacity	•	210.00
123 500	HOSPITAL CASEWORK	Water to Hills	A
123 501	CABINETS: For wood kitchen cabinets, see division (064-102	
123 501-0500	Cabinets, hospital, base cabinets, laminated plastic	LM	1,565.60
123 501-1000	Cabinets, hospital, base cabinets, Stainless steel		1,957.00
123 501-1300	Hospital cabinet base trim, 100 mm high, enameled steel		238.00
123 501-1400	Hospital cabinet base trim, 100 mm high, stainless steel		365.00
123 501-1650	Hospital cabinet, counter top, laminated plastic, with backsplash		335.00
123 501-1900	Hospital cabinet, counter top, stainless steel with backsplash		880.00
123 501-2100	Hospital cabinet nurses station, door type, laminated plastic		1,980.00
123 501-2200	Hospital cabinet nurses station, door type, enameled steel		1,650.00
123 501-2300	Hospital cabinet nurses station, door type, stainless steel		2,255.00
123 501-2400	Hospital cabinet nurses station, door type, laminated plastic, for drawer type		3,300.00
	Hospital, wall cabinets, laminated plastic with glass doors		1,430.00
	Hospital, wall cabinets, enameled steel with glass doors		1,650.00
123 501-2700	Hospital, wall cabinets, stainless steel with glass doors		2,240.00
123 501-3500	Hospital, kitchen base cabinets, metal, average		410.00
123 501-3700	Hospital, kitchen wall cabinets, metal, average		440.00
	School cabinets, 610 mm deep, metal, 2.1 m high units		2,100.00
	School cabinets, wood custom fabricated, 610 mm deep, 810 mm high counter	—	1,320.00
123 800	DISPLAY CASEWORK	I	
123 801	DISPLAY CASES:		
123 801-0020	Display cases, all glass, aluminum, 1067 mm high x 914 mm x 300 mm deep	EA	1,460.00
	Display cases, all glass, solid oak wood, 1067 mm high x 914 mm x 300 mm		2,035.00
123 801-0060	Display cases, all glass, bronze frame, 1067 mm high x 914 mm x 300 mm deep		1,650.00
128 001 0100	Display cases, all glass, bronze frame, 1780 mm high x 1220 mm x 457 mm deep		2,860 00
123 801-2100	Display wall mounted cases, glass front, aluminum frame, non-illuminated, one section, 1525 mm x 1220 mm x 406 mm Display wall mounted cases, glass front, aluminum frame, non-illuminated, two		2,950.00
123 001-2300	section, 2.4 m x 1.2 m x 400 mm Display wall mounted cases, glass front, solid oak wood, non-illuminated, two		4,200.00
125 001-2000	section, 3048 mm x 1219 mm x 406 mm Display wall mounted cases, glass front, bronze frame, non-illuminated, two		3,400.00
120 001 2700	section, 3048 mm x 1219 mm x 406 mm Display wall mounted cases, glass front, aluminum frame, illuminated with	+	4,700.00
120 001-2700	fluorescent lights, two section, 3048 mm x 1219 mm x 406 mm	SECTION	2,860.00
	BLINDS	and the training	

ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
Blinds, interior, solid colors, horizontal, 50 mm steel slats, minimum		87.00
		186.00
		186.00
	•	280.00
Blinds, interior, solid colors, vertical, mylar mirror-finish strips, to 200 wide,	EA	375.0
Blinds, interior, wood folding panels with movable louvers, 250 mm x 1010 mm each	EA	280.0
Blinds, interior, wood folding panels with fixed louver type, 200 mm x 500 mm each	EA	280.0
BLINDS		
SHADES:		1
Shades basswood, roll-up, stain finish, 22 mm slats	SQM	235.0
Shades basswood, vertical side slide, stain finish, 22 mm slats		186.0
		321.0
Set and the set of the		321.0
	\	321.0
DRAPERY HARDWARE:	ST TIME	
Drape/curtain, traverse rods, adjustable, 710 mm to 1.2 m	EA	75.0
		110.0
The state of the s	•	75.0
	SQM	85.0
	LM	35.0
		360.0
		70.0
	LM	1 70.0
		1,150.0
	EA	1,150.0
		900.0
		250.0
	<u> </u>	250.0
		2,500.0
	EA	16,700.0
		10,500.0
	year.	13,000.0
	EA	
Hospital bed, first aid, multi-function, average	-	4,300.0
Hospital bed, fowler three movement with I.V. stand without siderails, manual,		2,350.0
average Hospital bed, fowler two movement, manual, average		2,550.0
	Blinds, interior, solid colors, horizontal, 50 mm steel slats, minimum Blinds, interior, solid colors, vertical, 127 mm PVC strips, average Blinds, interior, solid colors, vertical, 127 mm cloth strips, average Blinds, interior, solid colors, vertical, 100 mm aluminum slats, average Blinds, interior, solid colors, vertical, mylar mirror-finish strips, to 200 wide, average Blinds, interior, wood folding panels with movable louvers, 250 mm x 1010 mm each Blinds, interior, wood folding panels with fixed louver type, 200 mm x 500 mm each BLINDS SHADES: Shades basswood, roll-up, stain finish, 22 mm slats Shades basswood, vertical side slide, stain finish, 22 mm slats Shades, roll-up, mylar, non-heat reflective, single or double layer Shades, roll-up, vinyl coated cotton Shades, roll-up, vinyl heavy weight, decorated, 6 gauge DRAPE/CURTAIN HARDWARE DRAPERY HARDWARE: Drape/curtain, traverse rods, adjustable, 710 mm to 1.2 m Drape/curtain, traverse rods, adjustable, 2.1 m to 4.0 m Balance, pinch pleated fabric, 300 mm deep, upto 1.4 m long, average Stationary rod FURNITURE & ACCESSORIES LANDSCAPE PARTITIONS POSTS: Posts portable, for pedestrian traffic control, brass with pedestal Plastic covered ropes, 38 mm dia. for pedestrian traffic control posts FURNITURE, DORMITORY: Dormitory, single bed complete, hardwood, average Dormitory, desk top, built-in, laminated plastic, 760 mm deep, average FURNITURE, HOSPITAL: Hospital bed, manual, average Hospital bed, manual and electric average Hospital bed, all electric, with side rails pan deck, average	Blinds, interior, solid colors, horizontal, 50 mm steel slats, minimum Blinds, interior, solid colors, vertical, 127 mm PVC strips, average Blinds, interior, solid colors, vertical, 127 mm cloth strips, average Blinds, interior, solid colors, vertical, 100 mm aluminum slats, average Blinds, interior, solid colors, vertical, mylar mirror-finish strips, to 200 wide, average Blinds, interior, wood folding panels with movable louvers, 250 mm x 1010 mm each Blinds, interior, wood folding panels with movable louvers, 250 mm x 1010 mm each Blinds, interior, wood folding panels with fixed louver type, 200 mm x 500 mm each Blinds, interior, wood folding panels with fixed louver type, 200 mm x 500 mm each BLINDS SHADES: Shades basswood, roll-up, stain finish, 22 mm slats Shades passwood, vertical side slide, stain finish, 22 mm slats Shades, roll-up, mylar, non-heat reflective, single or double layer Shades, roll-up, vinyl coated cotton Shades, roll-up, vinyl coated cotton Shades, roll-up, vinyl heavy weight, decorated, 6 gauge DRAPE/CURTAIN HARDWARE DRAPERY HARDWARE: Drape/curtain, traverse rods, adjustable, 710 mm to 1.2 m Drape/curtain, traverse rods, adjustable, 1.2 m to 2.1 m Drape/curtain, traverse rods, adjustable, 2.1 m to 4.0 m Balance, pinch pleated fabric, 300 mm deep, upto 1.4 m long, average SOM Stationary rod FURNITURE & ACCESSORIES LANDSCAPE PARTITIONS POSTS: Posts portable, for pedestrian traffic control, brass with pedestal EA FURNITURE, DORMITORY: Dormitory, single bed complete, hardwood, average Dormitory, single bed complete, hardwood, average Dormitory, desk top, built-in, laminated plastic, 760 mm deep, average FURNITURE, HOSPITAL: Hospital bed, manual and electric average Hospital bed, all electric, vantage Hi-Lo with side rails, average Hospital bed, all electric, with side rails pan deck, average Hospital bed, all electric, with side rails pan deck, average Hospital bed, all electric, with side rails pan deck, average Hospital bed, all electric average Hos

CSI CODE	ITEM DESCRIPTION	UNIT	COST PER
CODE			UNIT (SR)
126 210-0930			1,450.0
126 210-0940	Chair lab, revolving with cushioned, backrest plastic		350.0
126 210-1100	Hospital, overbed table, laminated top		725.0
	Hospital TV set, 480 mm ceiling hung	*	4,400.0
126 214	FURNITURE, HOTEL:		
126 214-0010	Hotel front desk, base cabinets, continuous shelf no top, 610 mm wide, quality granite top, provided with raceways for data & power wiring, average	LM	2,925.00
126 214-0400	Hotel guest room bed, queen size, oak, complete		2,560.00
The state of the s	Hotel guest room bed, king size, oak, complete		2,450.00
esucories d'unire - vertico.	Hotel guest room, desk & chair, cherry		975.00
	Hotel guest room, dining table chair, quality fabric, padded and solid cherry		584.00
	Hotel guest room, dining table, cherry		2,300.00
	Hotel guest room, dresser unit, cherry, 1.6 m long	*	1,520.00
	Hotel guest room, luggage table/rack	LM	1,400.00
7	Hotel guest room, night table	LM	485.00
The table has been a facility of	Hotel guest room, refrigerator unit		1,050.00
AND DESCRIPTION OF THE PARTY OF	Hotel guest room, safe, with battery back-up		1,450.00
	Hotel guest room, sofa, quality all fabric		9,880.00
	Hotel guest, room, stand light 100 watt		150.00
	Hotel guest room, table lamp, 100 watt		85.00
The second secon	Hotel guest room, top chair, quality all fabric		275.00
Testing Control of the Control of th	Hotel guest room, TV set, with tuner, 480 mm screen		3,550.00
	Library, attendant desk, 914mm x 1575mm x 737mm high		1,520.00
	Library, attendant desk, 1600mm x 800mm x 720mm high		1,525.00
	Library, card catalogue, 30 tray unit		3,400.00
	Library, carrels, single face, initial unit		1,150.00
	Library, dictionary stand, stationary	_	735.00
EVOIGHT SYNGER CHOW SIGNATURES	FURNITURE, LIBRARY:		
126 218-0100	Library, attendant desk, 914 mm x 1575 mm x 737 mm high	EA	1,463.00
Service Aller Commercial	Library, attendant desk, 1600 mm x 800 mm x 720 mm high		1,433.00
Control with the world the books of the	Library, card catalogue, 30 tray unit		3,237.00
	Library, carrels, single face, initial unit		1,055.00
	Library, dictionary stand, stationary		719.50
	Library, dictionary stand, revolving	_	720.00
	FURNITURE, OFFICE:		
126 222-0020	Office desk, metal double pedestal 760 mm high, 760 mm wide, 1.5 m long	EA	2,710.00
126 222-0030 p	Office desk, double pedestal, adjustable bar in file drawer, std. lock in each pedestal flush drawer pulls, top surface high pressure laminate, metal with wood op adjustable glides, 1600 mm x 800 mm x 740 mm high		2,925.00
126 222-0200	Office desk, cherry wood double pedestal 760 mm high, 900 mm wide, 1.8 m		3,214.00
	Executive desk with side extension, 1.2 m wide, 2 m long, cherry		7,260.00
	Office metal laminated desk, single pedestal, 760 mm high, 760 mm wide, 1.5 m		2,325.00
126 222-1500	Computer station unit with upper shelf, oak		380.00

CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
	Computer station unit, open shelving & storage beneath the top, three adjustable shelves on top of desk		575.00
126 222-6000	Office furniture, conference table 12 persons, wood, cherry veneered, boat, 1.35 m x 4 m		18,750.00
126 222-6070	Office conference table, 20 persons, solid wood, cherry facing, boat, 1.60 m x 5.4		36,521.00
	Office conference table, 24 persons, solid wood, oak facing, boat, 1.8 m x 6.0 m,		44,500.00
	Office conference table, 8 persons, solid wood, oak facing, rectangle, 1.2 m x 2.2		6,300.00
	m, ave. Office conference table, 12 person, solid wood, oak facing, rectangle, 1.2 m x 4.0		9,825.00
126 222-6760	m, ave. Office leather sofa, 3 persons average, including handling into building		6,440.00
			9,800.00
	Office filing cabinet, 4 drawers with sliding track, and roll-up door, all cherry		
126 226	FURNITURE, RESTAURANT:	19112000	2,800.00
ILO LLO GLOS	Restaurant counter with base cabinets 610 mm, cherry and granite top	LM	210.00
	Restaurant, chair, bentwood side chair, metal, average	LM	275.00
126 226-2600	Chair upholstered seat and back, arms, oak at fabric	LM	275.00
126 230	FURNITURE, SCHOOL:		T 000 00
	School desk, single pedestal, top book compartment, average	EA .	680.00
126 230-2200	School desk, flip top, minimum	EA	125.00
126 500	FURNITURE ACCESSORIES		
126 501	ASH/TRASH RECEIVERS		
	Ash urn, cylindrical metal, 215 mm diameter, 655 mm high	EA	155.00
126 501-1065	Ash urn, cylindrical metal, 254 mm diameter, 685.8 mm high		475.00
126 501-1070	Ash urn, cylindrical metal, 405 mm diameter, 535 mm high		1,665.00
126 501-5040	T I was to be a 405 mm diameter 815 mm high		2,224.00
	Trash receptacle, metal, 431.8 mm x 203.2 mm x 381 mm high		135.00
	Trash receptacle, plastic with lid 184 L		1,350.00
126 501-5540	Trash receptacle, fiberglass trash bucket with handle 0.40 m x 0.45 m		185.00
126 900	FLOOR MATS & FRAMES		
126 901	FLOOR MATS	COM	655.00
126 901-0010	Floor mats including recessed frame, black rubber, 10 mm thick, solid	SQM	760.00
126 901-0050	Floor mats including recessed frame, black rubber, 10 mm thick, perforated	SQM	-10000
126 901-0150	Floor mats including recessed frame, in laid black rubber, 13 mm thick, perforated	SQM	755.00
127	MULTIPLE SEATING	7	
127 100	MISCELLANEOUS SEATING		
127 101	SEATING		
127 101-0010	Seating benches See div. 028704		<u> </u>
127 101-0100		Name of the second	405.00
	Classroom, movable chair and desk type, average	SET	425.00
	Lecture hall seating, pedestal type, average	EA	455.00
	Auditorium chair, seating, veneer back, padded seat		1,260.00
	Auditorium chair, all veneered, fully upholstered, spring seat and with tablet arms		2,180.00

201	N 12 - FORMSTINGS	12 miles 19 19 19 19 19 19 19 19 19 19 19 19 19	and the state of the
CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
127 401	BOOTHS:		
127 401-1000	Booth, banquet, upholstered seat and back, straight average	LM	955.0
127 401-1600	Booth, banquet, upholstered seat and back "L" or "U" shape, average	LM	1,150.00
127 401-3000	Booth, fixed seating, one piece plastic chair and plastic laminate table top including two seat, 610 mm x 610 mm table, average	EA	1,200.00
127 401-3200	Booth fixed section and size at the last the las		1,560.00
127 401-4000	Free standing, wood fiber core with plastic laminate, single booth, 610 mm wide		450.00
127 401-4100	Free standing, wood fiber core with plastic laminate, single booth, 1220 mm wide		560.00
128	INTERIOR PLANTS & PLANTERS		
128 150	PLANTERS		
128 155	PLANTERS:		
128 155-1000	Planter, fiberglass, hanging, 300 mm diameter, 178 mm high	EA	95.00
128 155-1500	Planter, fiberglass, rectangular, 1220 mm long, 400 mm high x 380 mm wide		620.00
128 155-2000	Planter, fiberglass, round, 300 mm diameter, 630 mm high		190.00
128 155-8750	Planter, wood, fiberglass liner square, 360 mm square, 380 mm high, average		143.00
128 155-9500	Planter, plastic cylinder, molded, 280 mm diameter, 280 mm high		90.00

Division 13 Special Construction

DIVISIO	N 13 : SPECIAL CONSTRUCTION		
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT
123	MANUFACTURED CASEWORK		
130 250	INTEGRATED CEILINGS	A second	
130 251	INTEGRATED CEILINGS		
130 251-1620	Integrated ceiling, 1.5 m x 1.5 m mod., mineral fiber panels	SQM	105.00
	Integrated ceiling, 1.5 m x 1.5 m mod., glass fiber panels	n	105.0
130 300	SPECIAL PURPOSE ROOMS		112.0
130 305	DARKROOMS		
130 305-0010	Darkrooms shell, without door, 6 SQM, 2.4 m high	SQM	205 00
130 360	CLEAN ROOMS		225.00
130 361	CLEAN ROOM		
130 361-3000	Clean room ceiling panel, vinyl coated foil on mineral substrate,non-perforated	SQM	42.00
130 361-6000	High efficiency particulate air filter 0.6 m x 1.2 m to 150 mm deep, beveled frame	0	892.50
130 380	COLD STORAGE ROOMS		1
130 381	REFRIGERATION		100000000000000000000000000000000000000
130 381-3100	Cold storage room finishes, fiber glass panels, 3 mm thick	SQM	65.00
130 381-3200	Cold storage room finishes, polyurethane and white polyester finish, 100mm thick	н	
130 381-5200	Cold storage room, prefab walk-in, 2.2 m high, aluminum, including door, floors, partitions & refrigeration., 1.8 m x 1.8 m outside dimensions nominal	EA	183.75 29,384.25
130 381-5500	Cold storage room, prefab walk-in, 2.2 m high, GI Sheet, including door,floors, partitions & refrigeration, 3 m x 3 m outside dimensions nominal		35,633.32
130 381-5700	Cold storage room, prefab walk-in, 2.2 m high, aluminum, including door,floors, partitions & refrigeration, 3.6 m x 4.2 m outside dimensions nominal		45,171.00
130 381-6400	Cold storage freezers, complete units with doors & refrigeration, 3.6 m x 4.2 m x 2.2 m high		50,931.82
	Cold storage room shelving plated on galvanized steel wire type	+	1,075.20
All valorities in which the second	Cold storage room, for air curtain doors, see division 083-722		ч
130 520	SAUNAS		8
130 521	SAUNA		
130 521-0010	Sauna prefabricated including heater, glass door, light, controls, and complete with accessories, 2.1 m H, 1.8 m x 1.2 m, cedar on paneling	EA	20,160.00
130 521-0400	Sauna prefabricated including heater, glass door, controls and complete with accessories, 2.1 m H, 1.8 m x 1.5 m, cedar on paneling		22,050.00
130 521-0800	Sauna prefabricated including heater, glass door, controls and complete with accessories, 2.1 m H, 1.8 m x 2.75 m, cedar on paneling		29,820.00
130 521-1200	Sauna prefabricated including heater, glass door, controls, complete with accessories, 2.1 m H, 2.44 m x 2.4 m cedar on cedar		1439/1421577 (000)
130 521-1400	Sauna prefabricated including heater, glass door, controls, complete with accessories, 2.1 m H, 2.44 m x 3 m cedar on paneling		36,225.00 39,900.00
130 521-1600	Sauna prefabricated including heater, glass door, controls, complete with accessories, 2.1 m H, 3 m x 3.6 m cedar on paneling		46 200 00
130 521-1700	Sauna, door & frame only, cedar, 610 mm x 1800 mm with 300 mm x 450 mm double glazed toughened tinted glass window	EA	2,457.00

CSI	ITEM DECODIDATION	UNIT	COST PER UNIT
CODE	ITEM DESCRIPTION	UNIT	(SR)
130 521-3100	Sauna, heaters only, floor standing to 5 CUM, room size 5 kW with controls	EA	8,190.00
130 540	STEAM BATHS		77.00
130 541	STEAM BATH		
130 541-0010	Steam bath heater,including timer & head, single, 7 kW	EA	5,250.00
130 541-0020	Steam bath heater,including timer & head, single, 10 kW	311	5,670.0
130 810	ACOUSTICAL ENCLOSURES		
130 811	ACOUSTICAL		
130 811-0400	Acoustical reverb-chamber, 100 mm thick, complete	SQM	945.00
130 811-0900	Acoustical, sound-absorbing panels, painted metal		281.4
130 910	RADIATION PROTECTION		
130 911	SHIELDING LEAD	(3(-01-0-23))	
130 911-0100	Laminated lead, 2 mm thick	SQM	892.5
130 911-0200	Shielded door frame 1.2 m x 2.1 mm, 2 mm thick lead, prepared to receive hardware	EA	997.5
130 911-0300	Shielding, lead sheets, 2 mm thick		153.3
130 911-0400	Shielding, lead sheets, 3 mm thick		315.0
130 911-0550	Shielded lead glass 6 mm thick, average		5,775.0
130 911-0700	Shielded window glass & frame, 6 mm thick, 610 mm x 910 mm	+	2,782.5
130 911-2010	Shielded, X-ray viewing panels, clear lead plastic 7 mm thick with 0.3 mm lead thick,11.24 kg/m2	SQM	3,990.0
130 911-2040	Shielded, X-ray viewing panels, clear lead plastic 22 mm thick with 1.0 mm lead thick, 35 kg/m2		5,985.0
130 911-2060	Shielded, X-ray viewing panels, clear lead plastic 46 mm thick with 2.0 mm lead thick, 73.3 kg/m2		8,820.0
130 911-7050	Shielded modular X-ray barriers, 2 sections, frames, 1.2 m wide, 1.9 m high including clear lead plastic window in the upper half & opaque leaded steel panel forming the lower half, 1 mm thick lead panel		12,075.0
131	PRE-ENGINEERED STRUCTURES, POOLS	& ICE R	INKS
131 200	PRE-ENG. STRUCTURES		
131 202	DOMES		
131 202-1600	Bulk storage dome, steel framing & corrugated steel covering 227 SQM. area	SQM Floor	155.00
131 212	PRE-ENGINEERED STEEL BUILDINGS	likse	Tright.
131 212-0100	Pre-engineered steel building rigid, clear span framing only, 26 ga. 12 m wide, 4.25 m eave height, 2400 m2 floor area	SQM	170.0
131 212-4200	Pre-engineered building, double post frame, 26 ga. roofing and siding 45 m. wide, 7 m eave height		160.0
131 212-5500	Pre-engineered entrance canopy, framing, 1.2 m x 1.2 m	H = N CXCD	2,310.0
131 212-5550	Pre-engineered entrance canopy, incl. frame, 1.2 m x 2.4 m		2,625.0
131 212-5700	Pre-engineered doors, hollow metal, self-framing, incl. butts, lockset and trim, single leaf 910 mm x 2.1 m high	EA	2,331.0
131 212-5950	Pre-engineered doors, hollow metal, self-framing, incl. butts, lockset and trim, single leaf 1.8 m x 2.4 m high		2,331.0
131 212-6050	Pre-engineered, framing only, for openings, 910 mm x 2100 mm	12 75	630.00
	Pre-engineered, framing only, for openings, 3000 mm x 3000 mm		1,260.00
131 212-6250	Pre-engineered, flashings, 26 ga., corner or eave	LM	15.7

CSI			COST PER UNIT
CODE	ITEM DESCRIPTION	UNIT	(SR)
131 212-6550	Gutter, eave type, 26 ga.		42.00
131 212-8210	Skylight panels 0.91 m x 2.68 m		268.80
131 212-8250	Framing for skylight, fiberglass panels over 3 SQM	*	23.10
131 220	METAL BUILDING SYSTEMS		
131 221	BUS SHELTERS:		
131 221-0100	Bus stop shelter, anodized aluminum framing structure, 50%, 6mm acrylic glazing in baked enamel finish panels, 3 sides only. 2.75m x 3.6m x 2.44mm high	EA	7,770.00
131 221-0150	Bus stop shelters, aluminum frame, acrylic glazing 2.75 m x 3.66 m x 2.44 m high	OR A	11,025.00
131 230	GREENHOUSES		•
131 231	GREENHOUSE		
131 231-0400	Prefabricated greenhouse, free standing, size 39 m x 9 m with all accessories and covered with plastic sheets	EA	5,250.00
131 231-0410	Prefabricated greenhouse, free standing, size 39 m x 9 m with all accessories and covered with fiberglass sheets	S T F.	5,250.00
131 231-0700	Greenhouse shell only, 5 m long, 3.2 m wide	EA	2,625.00
131 245	KIOSKS		
131 245-0100	Round kiosk,prefabricated, 1.5 m diam. 2.4 m high, 25 mm insulated double wall, fiberglass	SQM Floor	472.50
131 247	PORTABLE BOOTHS		
131 247-0100	Prefabricated insulated booth, aluminum complete with doors, windows, 1.4 SQM, 2.4 m high average	SET	3,675.00
131 247-0300	Prefabricated insulated booth, aluminum complete with doors, windows, 3.0 SQM, 2.4 m high average		4,515.00
131 247-1200	Prefabricated ticket booth, galv. steel, 1.2 m x 1.8 m, average	*	2,625.00
131 520	SWIMMING POOLS		
131 523	SWIMMING POOL EQUIPMENT		
131 523-0300	Swimming pool, diving stand, stainless steel, 3 meter	EA	58,300.00
131 523-0600	Swimming pool, diving board 5 m long, fiberglass		
131 523-0900	Swimming pool filter system, sand or diatomite type, including pump 85 GPM & chlorination system, pool size 75 SQM	•	2,698.00
131 523-1100	Swimming pool, gutter system, stainless steel, with grating, with supply and drainage system	LM	1,760.00
131 523-1110	Swimming pool, gutter system grating, stainless steel, including supply drainage		2,805.00
131 523-1200	Swimming pool, ladders, heavy duty, stainless steel, 4 tread	EA	2,675.00
131 523-1800	Swimming pool, lifeguard chair, stainless steel, portable		3,740.00
121 522 2100	Swimming pool, lights, underwater, 12V, with transformer	•	1,501.50
131 323-2100	Swimming pool heaters, See division 155150		
131 523-2800	Swimming pool cover, reinforced vinyl	SQM	5.00
131 523-2800 131 523-3000	Swimming pool cover, reinforced vinyl Swimming pool slides, fiberglass, aluminum handrails & ladder, 1.8 m straight	EA	7,150.00

DIVISIO	N 13: SPECIAL CONSTRUCTION		
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT
132	TANKS, TANK COVERS, FILTRATION I	EQUIPMENT	
132 050	GROUND STORAGE TANKS		
132 051	TANKS		
132 051-1000	Fiberglass storage tank 2 CUM	EA	680.00
132 051-1100	Fiberglass storage tank 8 CUM		3,300.00
132 051-1200	Fiberglass storage tank 40 CUM		20,800.00
132 051-3040	Steel, storage tank, 2 CUM capacity		2,750.00
132 051-3080	Steel, storage tank, 4 CUM capacity		4,400.00
132 051-3140	Steel, storage tank, 20 CUM capacity		15,950.00
132 051-3180	Steel, storage tank,100 CUM capacity		47,300.00
132 051-3330	Steel, storage tank, double wall, 8 CUM capacity		15,400.00
132 051-3360	Steel, storage tank, double wall,30 CUM capacity		34,980.00



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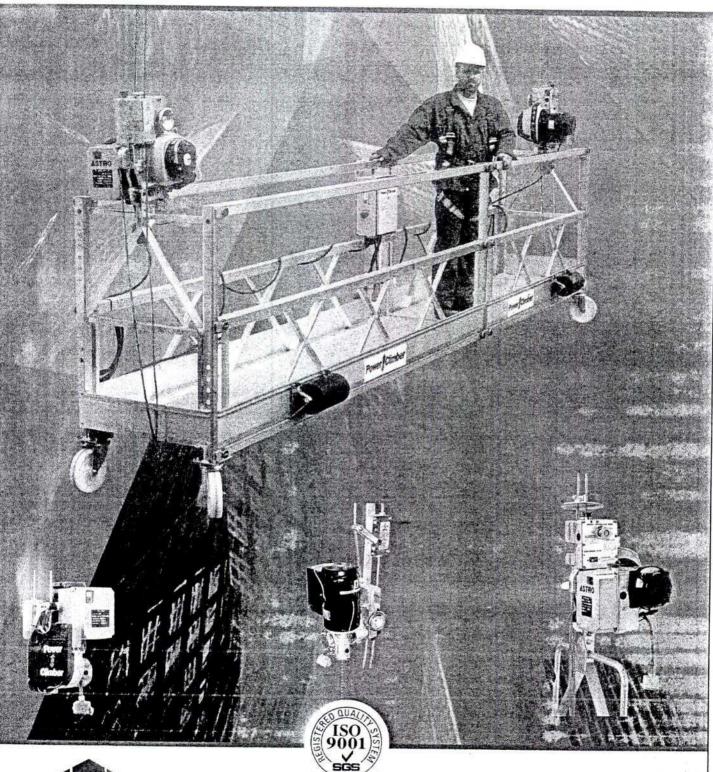
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Division 14 Conveying Systems

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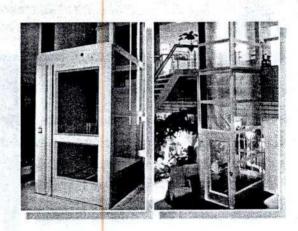
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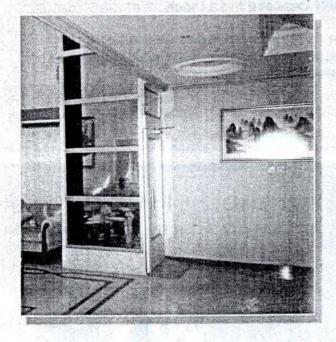
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توجد مصاعد هيدروليكية للقصور والعمائر والعارض

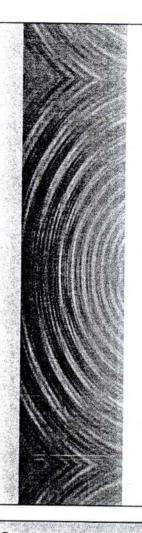


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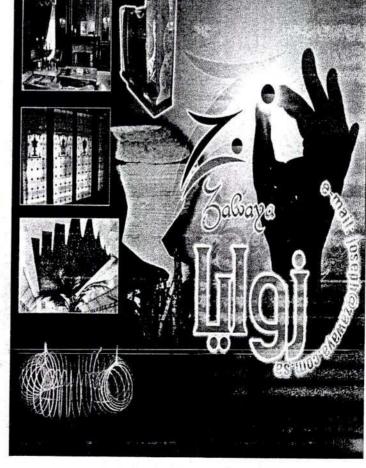




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DIVISIO	N 14: CONVEYING SYSTEMS		
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
141	DUMBWAITERS		
141 100	MANUAL DUMBWAITERS		THE RESERVE AND ADDRESS OF THE PARTY OF THE
141 101	DUMBWAITERS:		
141 101-0100	Manual dumbwaiter, 2 stops,average	EA	60,000.0
141 200	ELECTRIC DUMBWAITERS		
141 201	DUMBWAITERS:		6
	Electric dumbwaiters, 2 stops,average	EA	400,000.0
142	ELEVATORS		
142 010	ELEVATORS		
142 011	ELEVATORS		
142 011-0700	Elevator freight, 6 storey,hydraulic, 1800 kg capacity, 0.5 m/second speed,average	EA	60,000.0
142 011-1000	Elevator freight, 6 storey,hydraulic, 1380 kg capacity, 0.76 m/second speed,average		400,000.0
142 011-1100	Elevator freight, 6 storey,hydraulic, 1800 kg capacity, 0.76 m/second speed,average		420,000.0
142 011-1120	Elevator freight, 6 storey,hydraulic, 2000 kg capacity, 0.76 m/second speed,average		480,000.0
142 011-2500	Elevator freight, 6 storey geared electric 1800 kg capacity, 2.0 m/second speed, average		500,000.0
142 011-2600	Elevator freight, 6 storey geared electric 3000 kg capacity, 2 m/second speed, average		560,000.0
142 011-3500	Elevator freight, 10 storey geared electric 1800 kg capacity, 1.5 m/second speed, average		580,000.0
142 011-3700	Elevator freight, 10 storey geared electric 3000 kg capacity, 2 m/ second speed, average		600,000.0
142 011-3800	Elevator freight, 10 storey geared electric 3800 kg capacity, 1.5 m/second speed, average		680,000.0
142 011-5200	Elevator freight, 15 storey geared electric 2200 kg capacity, 1.5 m/second speed, average		690,000.0
142 011-5800	Elevator freight, 15 storey geared electric 2700 kg capacity, 2.0 m/second speed, average		700,000.0
142 011-5920	Elevator freight, 16 storey geared electric 3800 kg capacity, 2.0 m/second speed, average		750,000.0
142 011-6400	Elevator freight, 20 storey geared electric 3000 kg capacity, 2 m/second speed, average		820,000.0
142 011-6700	Elevator freight, 20 storey geared electric 4500 kg capacity, 2 m/second speed, average	B数400	900,000.0
142 011-7000	Elevator passenger, 3 storey,hydraulic, 680 kg capacity, 0.63 m/second speed		180,000.0
142 011-7020	Elevator passenger, 5 storey,hydraulic, 900 kg capacity, 0.88 m/second speed	ra v pro- pri j	220,000.0
142 011-7160	Elevator passenger, 5 storey,hydraulic, 680 kg capacity, 0.50 m/second speed	100	200,000.0
142 011-7180	Elevator passenger, 5 storey,hydraulic, 900 kg capacity, 0.635 m/second speed	OMTH, SAG	170,000.0
142 011-7260	Elevator passenger, 5 storey,hydraulic, 1100 kg capacity, 0.88 m/second speed	The state of the s	220,000.0
142 011-7320	Elevator passenger, 6 storey,hydraulic, 1300 kg capacity, 0.88 m/second speed	- 1	260,000.0
142 011-7330	Elevator passenger, 8 storey, gearless electric 1000 kg capacity, 1 m/second speed, average	EA	240,000.0

CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
142 011-7340	Elevator passenger, 8 storey, gearless electric 800 kg capacity, 1 m/second speed, average		260,000.0
142 011-7350	Elevator passenger, 9 storey, gearless electric 800 kg capacity, 1 m/second speed, average		270,000.0
142 011-7800	Elevator passenger, 10 storey geared electric 970 kg capacity, 1.02 m/second speed, average		290,000.0
142 011-7900	Elevator passenger, 10 storey geared electric 1100 kg capacity, 1.20 m/second speed, average		320,000.0
142 011-8000	Elevator passenger, 10 storey geared electric 1380 kg capacity, 1.50 m/second speed, average		400,000.0
142 011-8060	Elevator passenger, 10 storey geared electric 1800 kg capacity, 1.77 m/second speed, average		460,000.0
142 011-8120	Elevator passenger, 10 storey geared electric 2200 kg capacity, 2.00 m second/speed, average		480,000.0
142 011-8380	Elevator passenger, 16 storey geared electric 1800 kg capacity, 2 m/second speed, average		520,000.0
142 011-8440	Elevator passenger, 16 storey geared electric 2200 kg capacity, 2 m/second speed, average		590,000.00
142 011-8600	Elevator passenger, 20 storey geared electric 1800 kg capacity, 2 m/second speed, average	•	720,000.00
142 011-8700	Elevator passenger, 20 storey geared electric 2200 kg capacity, 2 m/second speed, average	EA	740,000.00
142 011-9060	Elevator passenger, 18 storey gearless electric 1800 kg capacity, 3.00 m/second speed, average		640,000.00
142 011-9220	Elevator passenger, 16 storey gearless electric 2200 kg capacity, 4.00 m/second speed, average		600,000.00
142 011-9560	Elevator passenger, 20 storey gearless electric 1800 kg capacity, 4.00 m/second speed, average		790,000.00
142 011-9600	Elevator passenger, 20 storey gearless electric 2000 kg capacity, 3.50 m/second speed, average		770,000.00
142 011-9700	Elevator passenger, 20 storey gearless electric 2200 kg capacity, 3.00 m/second speed, average		750,000.00
142 011-9780	Elevator passenger, 20 storey gearless electric 2200 kg capacity, 4.00 m/second speed, average	.	780,000.00
43	MOVING STAIRS & WALKS		
43 100	ESCALATORS		
43 101	ESCALATORS:		
143 101-0010	Escalators single unit,up or down,rise 3.00 m, 813 mm wide,stainless steel balustrade	EA	240,000.00
143 101-0100	Escalators single unit,up or down,rise 4.50 m, 813 mm wide,stainless steel balustrade		280,000.00
143 101-0200	Escalators single unit,up or down,rise 6.00 m, 813mm wide,stainless steel balustrade		350,000.00
143 101-0300	Escalators single unit,up or down,rise 4.50 m, 813 mm wide,enameled steel balustrade		280,000.00
143 101-1000	Escalator, single unit,up or down,rise 3.50 m, 1.2 m wide,enameled steel balustrade		290,000.00
143 101-1100	Escalator, single unit,up or down,rise 4.60 m,1.2 m wide,stainless steel balustrade		250,000.00
143 101-1200	Escalator, single unit,up or down,rise 6.00 m, 1.2 m wide,enameled steel balustrade		350,000.00
143 101-1300	Escalator, single unit,up or down,rise 4.50 m,1.2 m wide, glass balustrade	EA	280,000.00

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CSI	6		COST PER
CODE	ITEM DESCRIPTION	UNIT	UNIT (SR)
143 201	MOVING RAMPS AND WALKS:		
143 201-0010	Moving walk, 686 mm tread width, 50 m long.	EA	480,000.00
143 201-0140	Moving walk, 686 mm tread width, 150 m long.		680,000.00
143 201-0400	Moving walk, 1220 mm tread width walk, 100 m long		640,000.00
143 201-0600	Moving walk,ramp, 12 degree incline, 910 mm tread width, 12 meter long		280,000.0
143 201-0900	Moving walk,ramp, 12 degree incline,1220 mm tread width, 6 meter long	+	290,000.0
145	MATERIAL HANDLING SYSTEMS		
145 010	MATERIAL HANDLING SYSTEMS		
145 500	CONVEYORS		
145 501	MATERIAL HANDLING:		- W
145 501-0100	Conveyors, Gravity type, 50 mm rollers, 76 mm O.C., 3 m sections with 2 supports, 270 kg capacity, 600 mm wide	EA	1,133.00
145 501-0150	Conveyors, Gravity type, 50 mm rollers, 76 mm O.C., 3 m sections with 2 supports, 600 kg capacity, 600 mm wide		1,320.0
145 501-0400	Conveyors, Center drive & takeup, horizontal belt, 0.3 m/s, 400 mm belt, 8 m long		9,030.0
145 501-0450	Conveyors, Center drive & takeup, horizontal belt, 0.3 m/s, 600 mm belt, 13 m long		9,870.0
145 501-0620	Conveyor, Inclined belt, with horizontal loader and end idler assembly, 3 m rise, 8 m long, 460 mm wide belt.		21,315.0
145 501-0700	Conveyor, Inclined belt, with horizontal loader and end idler assembly, 3 m rise, 8 m long, 600 mm wide belt.		23,940.0
145 501-1210	Conveyor, Overhead, automatic powered chain type, 186 kg/m capacity	+	577.50
145 600	CHUTES		
145 601	CHUTES:		_
145 601-0050	Chutes for linen, floor height 3.6 m,aluminized steel, 16 ga, with sprinkler,size 450 mm diameter complete with chute door	LM	3,803.22
145 601-0060	Chutes for refuse, floor height 3.6 m,aluminized steel, 16 ga, with sprinkler,size 450 mm diameter complete with chute door		3,457.4
145 601-0100	Chutes for linen, floor height 3.6 m, stainless steel, with sprinkler, size 450 mm diameter complete with door	ark	6,220.0
145 601-0110	Chutes for chutes, floor height 3.6 m, stainless steel, with sprinkler, size 450 mm diameter complete with door		5,654.5
145 601-0150	Chutes for refuse, floor height 3.6 m, galvanized steel, with sprinkler, size 450 mm diameter complete with door		2,054.5
145 601-0200	Chutes for linen, floor height 3.6 m, stainless steel with sprinkler, size 600 mm diameter complete with chute door		7,515.0
145 601-0250	Chutes for refuse, floor height 3.6 m, stainless steel with sprinkler, size 600 mm diameter complete with chute door		6,831.8
145 601-0300	Chutes for linen or refuse, floor height 3.6 m, stainless steel with sprinkler, size 900 mm diameter complete with chute door	1 V	10,105.0
	Chutes,linen bottom collector,aluminized steel	EA	1,945.72
	Chutes, linen bottom collector, stainless steel		4,623.15
	Chutes,refuse bottom hopper,aluminized steel upto 900mm diameter (36")	*	2,100.00
146	HOISTS & CRANES		
a man course of	HOISTS & CRANES		
146 010	HUISTS & CHANES		

DIVISIO	N 14: CONVEYING SYSTEMS		
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
146 011-2100	Overhead crane, 3 ton x 15 M span single girder, height of lift - 6 meters, standard industrial indoor duty with pendant control	EA	98,000.00
146 011-2120	Overhead crane, 5 ton x 15 M span single girder, height of lift - 6 meters., standard industrial indoor duty with pendant control	EA	126,000.00
146 011-2140	Overhead crane, 7.5 ton x 15 M span single girder, height of lift - 6 meters, standard industrial indoor duty with pendant control	EA	144,000.00
146 050	RAILS		
146 054	CRANE RAIL	***************************************	
146 054-0100	Overhead crane, box beam bridge without equipment.	KG	8.00
146 054-0200	Overhead crane running tracks only, 0 .05 Kg/ mm	п	5.00

Division 15 Mechanical



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WEISS INSTRUMENTS

Smoke Emitters





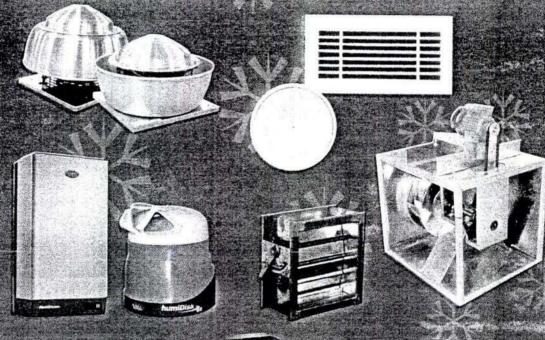
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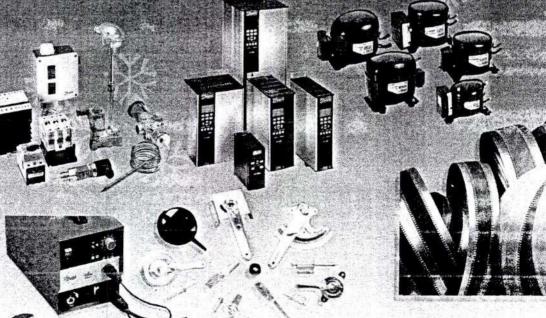
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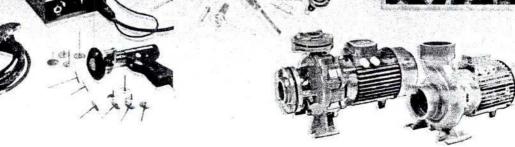


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Refrigeration House Group
AIR CONDITIONIG & REFRIGERATION SPARE PARTS







CSI	ITEM DESCRIPTION	UNIT	COST PER
CODE	TIEW DESCRIPTION	ONIT	UNIT (SR)
151	PIPES & FITTINGS:		
151 100	MISCELLANEOUS FITTINGS:	The state of the s	
151 105	BACKFLOW PREVENTER:		
151 105-1010	Backflow preventer, " Brass/Bronze ", size (3/4").	EA	215.00
	Backflow preventer, " Brass/Bronze ", size (1").		270.00
	Backflow preventer, " Brass/Bronze ", size (2").		1,750.00
The State of the S	Backflow preventer, " Steel ", flanged type, size (3"). Backflow preventer, " Steel ", flanged type, size (4").		2,450.00
	Backflow preventer, "Steel", flanged type, size (4).		3,850.00
151 165	SHOCK ABSORBERS :		
WATER CONTRACTOR	Shock absorbers copper, male, 1/2" size.	EA	185.00
151 165-1020	Shock absorbers copper, male, 3/4" size.		235.00
151 165-1030	Shock absorbers copper, male, 1" size.		315.00
151 165-1040	Shock absorbers copper, male, 1 1/2" size.		395.00
151 185	VACUUM BREAKERS:		
151 185-1010	Vacuum breaker, anti-siphon, brass, 1/2" size.	EA	190.00
151 185-1020	Vacuum breaker, anti-siphon, brass, 3/4" size.		270.00
151 185-1030	Vacuum breaker, anti-siphon, brass, 1" size.	 	675.00
151 200	PIPES WITH FITTINGS :		
151 210	STAINLESS STEEL PIPE (Sch 40):		
151 210-1010	Pipe, stainless steel, threaded type, 20 mm diameter (1/2").	LM	45.00
151 210-1020	Pipe, stainless steel, threaded type, 25 mm diameter (3/4").		55.00
151 210-1030	Pipe, stainless steel, threaded type, 32 mm diameter (1").		70.0
151 210-1040	Pipe, stainless steel, threaded type, 65 mm diameter (2").	1	90.00
151 220	GALVANIZED STEEL PIPE (Sch. 40);		
151 220-1010	Threaded type with fittings, size 1/2" mm diameter.		10.00
	Threaded type with fittings, size 3/4" mm diameter.	LM	15.00
151 220-1030	threaded type with fittings, size 1" mm diameter.		20.00
151 220-1040	Threaded type with fittings, size 1 1/2" mm diameter.		25.00
	Threaded type with fittings, size 2" mm diameter.		35.00
	threaded type with fittings, size 3" mm diameter.		50.00
The west of Markets of Higher Street	Flanged type with fittings, size 4" mm diameter.		70.00
	Flanged type with fittings, size 5" mm diameter.		90.00
	Flanged type with fittings, size 6" mm diameter.		120.00
	Flanged type with fittings, size 8" mm diameter.		170.0
151 230	DUCTILE IRON PIPE;		
ROBORA HENVIOLE	Threaded type with fittings, size 1 1/2" mm diameter.	LM	45.00
	Threaded type with fittings, size 2" mm diameter.		75.00
	Flanged type with fittings, size 3" mm diameter.		115.00
			155.00
			245.00
			365.00
151 230-1060	Flanged type with fittings, size 8" mm diameter.	▼	000.0

CODE	ITEM DESCRIPTION	UNIT	COST PER
			UNIT (SR)
151 240-1010 Threa	ded type with fittings, size 20 mm diameter (1/2") ded type with fittings, size 25 mm diameter (3/4")		8.0
151 240-1030 Thread	to the second se	LM	12.0
151 240-1040 Thread	ded type with fittings, size 32 mm diameter (1") ded type with fittings, size 50 mm diameter (1 1/2")		17.0
151 240-1050 Thread	ded type with fittings, size 65 mm diameter (2")		21.0
151 240-1060 Flange	ed type with fittings, size 90 mm diameter (3")		30.0 43.0
151 240-1070 Flange			60.0
151 240-1080 Flange			78.0
151 240-1090 Flange	d type with fittings, size 150 mm diameter (6")		100.0
151 300 CAS	d type with fittings, size 200 mm diameter (8")	+	150.0
	T IRON PIPE:		
	with fittings, size 65 mm diameter (2")	LM	65.00
	with fittings, size 90 mm diameter (3")		90.00
151 300-1030 Pipes	with fittings, size 100 mm diameter (4")		125.00
151 300-1040 Pipes v	with fittings, size 125 mm diameter (5")		140.00
	with fittings, size 150 mm diameter (6")		
	PER PIPE :	▼	170.00
151-400-1010 Type K		LM	40.00
151-400-1020 Type K		LIVI	40.00
151-400-1030 Type K			55.00
151-400-1040 Type L			80.00
	200 - 200 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		38.00
The state of the s			50.00
	tubing, size 1 1/8".		75.00
The content of the co	tubing, size 1 5/8".		170.00
151-400-1080 Type L	tubing, size 2 1/8".		235.00
51 500 THEF	RMO PIPE (AQUATHERM);		
151 500-1010 Size	20 mm dia. (1/2").	LM	23.00
151 500-1020 Size	25 mm dia. (3/4").		27.00
151 500-1030 Size 3	32 mm dia. (1 ⁿ).		
151 500-1040 Size	40 mm dia. (1 1/4") .		32.00
MATERIAL PROPERTY OF THE PROPE	60 mm dia. (1 1/2") .		35.00
Fug Exchinerative displayed in			42.00
A CONTRACTOR OF THE CONTRACTOR			48.00
	75 mm dia. (2 1/2") .		55.00
	0 mm dia. (3").		63.00
151 500-1090 Size 1			70.00
151 500-1100 Size 1:		i le let	82.00
	, Sch 40/Class-5 :		747
151 550-1010 Size 20		LM	12.00
151 550-1020 Size 25			15.00
151 550-1030 Size 32			18.00
151 550-1040 Size 40	mm diameter (1 1/4")		21.00
	mm diameter (1 1/2")		25.00
151 550-1060 Size 65			
151 550-1070 Size 75			30.00
151 550-1080 Size 90		LM	35.00

(m)

CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
151 550-1090	Size 110 mm diameter (4")		48.00
	Size 160 mm diameter (6")		55.00
151 550-1110	Size 200 mm diameter (8")	11 1	63.00
151 551	uPVC, Class-4:		
151 551-1010	Size 20 mm diameter (1/2")	LM	9.00
151 551-1020	Size 25 mm diameter (3/4")		11.00
151 551-1030	Size 32 mm diameter (1")		14.00
151 551-1040	Size 40 mm diameter (1 1/4")		17.00
151 551-1050	Size 50 mm diameter (1 1/2")		20.00
151 551-1060	Size 65 mm diameter (2")		23.00
151 551-1070	Size 75 mm diameter (2 1/2")		27.00
151 551-1080	Size 90 mm diameter (3")		33.00
151 551-1090	Size 110 mm diameter (4")		40.00
151 551-1100	Size 160 mm diameter (6")		45.00
151 551-1110	Size 200 mm diameter (8")	+	52.00
151 800	GROOVED PIPES COUPLING (STEEL):		
151 800-1010	Size (2").	LM	8.00
151 800-1020	Size (21/2").		10.00
151 800-1030	Size (3").		13.00
151 800-1040	Size (4").		16.00
151 800-1050	Size (6").		20.00
151 900	DRAINAGE FITTINGS AND ACESSORIES :	-	
151 910	FLOOR DRAINS :		
20			
	(uPVC 'APLACO', With St. Cover)		
151 910-1010	(uPVC 'APLACO', With St. Cover) Round or square , size 125 mm, 75X50X50 mm pipes connections.	EA	190.00
151 910-1010 151 920	<u> </u>	EA	190.00
	Round or square, size 125 mm, 75X50X50 mm pipes connections.		190.00
151 920	Round or square , size 125 mm, 75X50X50 mm pipes connections. FLOOR DRAINS, " ZURN " :		
151 920 151 920-1010	Round or square, size 125 mm, 75X50X50 mm pipes connections. FLOOR DRAINS, " ZURN " : (Cast Iron Body With round/square bronze strainer, model : Z	B-415/6B)	300.00
151 920 151 920-1010 151 920-1020	Round or square, size 125 mm, 75X50X50 mm pipes connections. FLOOR DRAINS, " ZURN ": (Cast Iron Body With round/square bronze strainer, model : Zurn Size 50 mm / 2".	B-415/6B)	300.00 310.00
151 920 151 920-1010 151 920-1020 151 920-1030	Round or square, size 125 mm, 75X50X50 mm pipes connections. FLOOR DRAINS, " ZURN ": (Cast Iron Body With round/square bronze strainer, model : Z. Size 50 mm / 2". Size 80 mm / 3".	B-415/6B)	300.00 310.00 315.00
151 920 151 920-1010 151 920-1020 151 920-1030 151 920-1040	Round or square, size 125 mm, 75X50X50 mm pipes connections. FLOOR DRAINS, " ZURN ": (Cast Iron Body With round/square bronze strainer, model: Zure Size 50 mm / 2". Size 80 mm / 3". Size 110 mm / 4".	B-415/6B)	300.00 310.00 315.00
151 920 151 920-1010 151 920-1020 151 920-1030 151 920-1040	Round or square, size 125 mm, 75X50X50 mm pipes connections. FLOOR DRAINS, " ZURN ": (Cast Iron Body With round/square bronze strainer, model: Z. Size 50 mm / 2". Size 80 mm / 3". Size 110 mm / 4". Size 160 mm / 6".	B-415/6B)	300.00 310.00 315.00
151 920 151 920-1010 151 920-1020 151 920-1030 151 920-1040 151 921	Round or square, size 125 mm, 75X50X50 mm pipes connections. FLOOR DRAINS, " ZURN " : (Cast Iron Body With round/square bronze strainer, model : Z. Size 50 mm / 2". Size 80 mm / 3". Size 110 mm / 4". Size 160 mm / 6". FLOOR DRAINS, " ZURN " : (Cast Iron Body With square st. steel strainer, model : ZS-415.	B-415/6B)	300.00 310.00 315.00 415.00
151 920 151 920-1010 151 920-1020 151 920-1030 151 920-1040 151 921	Round or square, size 125 mm, 75X50X50 mm pipes connections. FLOOR DRAINS, " ZURN " : (Cast Iron Body With round/square bronze strainer, model : Z. Size 50 mm / 2". Size 80 mm / 3". Size 110 mm / 4". Size 160 mm / 6". FLOOR DRAINS, " ZURN " : (Cast Iron Body With square st. steel strainer, model : ZS-415, Size 80 mm / 3".	B-415/6B) EA /6S),	300.00 310.00 315.00 415.00
151 920 151 920-1010 151 920-1020 151 920-1030 151 920-1040 151 921 151 921-1010 151 921-1020	Round or square, size 125 mm, 75X50X50 mm pipes connections. FLOOR DRAINS, " ZURN " : (Cast Iron Body With round/square bronze strainer, model : Z. Size 50 mm / 2". Size 80 mm / 3". Size 110 mm / 4". Size 160 mm / 6". FLOOR DRAINS, " ZURN " : (Cast Iron Body With square st. steel strainer, model : ZS-415, Size 80 mm / 3". Size 80 mm / 3". Size 110 mm / 4".	B-415/6B) EA /6S),	300.00 310.00 315.00 415.00
151 920 151 920-1010 151 920-1020 151 920-1030 151 920-1040 151 921	Round or square, size 125 mm, 75X50X50 mm pipes connections. FLOOR DRAINS, " ZURN " : (Cast Iron Body With round/square bronze strainer, model : Z. Size 50 mm / 2". Size 80 mm / 3". Size 110 mm / 4". Size 160 mm / 6". FLOOR DRAINS, " ZURN " : (Cast Iron Body With square st. steel strainer, model : ZS-415, Size 80 mm / 3".	B-415/6B) EA /6S),	300.00 310.00 315.00 415.00 425.00
151 920 151 920-1010 151 920-1020 151 920-1030 151 920-1040 151 921 151 921-1010 151 921-1020 151 922	Round or square , size 125 mm, 75X50X50 mm pipes connections. FLOOR DRAINS, " ZURN " : (Cast Iron Body With round/square bronze strainer, model : Z. Size 50 mm / 2". Size 80 mm / 3". Size 110 mm / 4". Size 160 mm / 6". FLOOR DRAINS, " ZURN " : (Cast Iron Body With square st. steel strainer, model : ZS-415, Size 110 mm / 4". Size 110 mm / 4". FLOOR DRAINS, " ZURN " : (Cast Iron Body With round C.I. Top , model : Z-415/9B),	B-415/6B) EA /6S),	300.00 310.00 315.00 415.00
151 920 151 920-1010 151 920-1020 151 920-1030 151 920-1040 151 921 151 921-1010 151 921-1020 151 922-1010	Round or square, size 125 mm, 75X50X50 mm pipes connections. FLOOR DRAINS, " ZURN " : (Cast Iron Body With round/square bronze strainer, model : Zasize 50 mm / 2". Size 50 mm / 3". Size 110 mm / 4". Size 160 mm / 6". FLOOR DRAINS, " ZURN " : (Cast Iron Body With square st. steel strainer, model : ZS-415asize 80 mm / 3". Size 110 mm / 4". FLOOR DRAINS, " ZURN " :	B-415/6B) EA /6S), EA EA	300.00 310.00 315.00 415.00 425.00

CSI	N 15: MECHANICAL	And the second of the second of	
CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
The second of th	Size 160 mm / 6".	•	675.0
151 930	FLOOR CLEANOUTS (FCO):		
	(Cast Iron Body with round bronze Top, model : ZB-	1400/NL),	
151 930-1010	Size 50 mm / 2".	EA	270.00
151 930-1020	Size 80 mm / 3".		310.00
151 930-1030	Size 110 mm / 4".		350.00
151 930-1040	Size 160 mm / 6".		825.0
151 935	PIPES CLEANOUTS (PCO):	■	020.00
	(uPVC type, with plug),		
151 935-1010	Size 50 mm / 2" dia.	EA	30.00
151 935-1020	Size 80 mm / 3" dia.		35.00
151 935-1030	Size 110 mm / 4" dia.		40.00
151 935-1040	Size 160 mm / 6" dia.	1	55.00
151 940	OUTDOOR SURFACE CLEANOUTS (SCO)	1	
	(Cast Iron With C.I. Round Top, model : Z-1400/NL)		
151 940-1010	Size 160 mm / 6" .	EA	670.00
and the second s	Size 200 mm / 8" .	EA	685.00
151 945	TRAPS:		
	C.I. Service weight, long P-trap, 50 mm pipe size	EA	38.00
	C.I. Service weight, long P-trap, 75 mm pipe size		50.00
The state of the s	C.I. Service weight, long P-trap, 100 mm pipe size		90.00
151 950	VALVES:		
151 951	GAS STOP VALVES (BRONZE):		
THE RESERVE AND ADDRESS OF THE PARTY OF THE	Size 1/2" dia.	EA	50.00
151 951-1020	200 CO (100 CO) (100 CO (100 CO (100 CO) (67.00
151 951-1030	H1045000 10 10 0TATON		85.00
151 951-1040 151 951-1050	SERVICE ME MONEY THE PROPERTY.		127.00
151 951-1060			183.00
Comment of the comment	BALL VALVES THREADED TYPE (BRONZE		318.00
151 952-1010		EA	42.00
151 952-1020	OLOGICA CONTROL CONTRO		56.00
151 952-1030		Tyring and Williams	73.00
151 952-1040	Size 1 1/2" dia.	interior afficial section	102.00
151 952-1050	Size 2" dia.		167.00
151 952-1060	Size 3" dia.		258.00
	GATE VALVES, THREADED TYPE (BRONZE	, CLASS 125):	
151 953-1010	Non rising stem, 1/2" size.	EA	63.00
151 953-1020			70.00
	Non rising stem, 1" size.		92.00
151 953-1040 1	Non rising stem, 1 1/2" size.		167.00

CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
151 953-1050	Non rising stem, 2" size.		212.00
	Non rising stem, 3" size.		705.00
151 954	GLOBE VALVES, THREADED TYPE (BRONZE, CLASS	125):	
The state of the s	Class 150, rising stem, 1/2" size.	EA	72.00
Contract Con	Class 150, rising stem, 3/4" size.		85.00
THE STATE OF STREET OF STREET	Class 150, rising stem, 1" size.		103.00
	Class 150, rising stem, 1 1/2" size.		176.00
	Class 150, rising stem, 2" size.		237.00
151 955	ANGLE VALVES, INDUSTERIAL THREADED TYPE (BR	ONZE)	A PERSONAL PROPERTY OF THE PRO
	Rising stem, 1034 kPa, 1" size.	EA	73.00
	Rising stem, 1034 kPa, 1 1/2" size.		108.00
	Rising stem, 1034 kPa, 2" size.		137.00
	GATE VALVES, SOLDERED TYPE (BRONZE, CLASS 1	25) •	107.00
151 956			75.00
	Non rising stem, 1/2" size.	EA	75.00
	Non rising stem, 3/4" size.		87.00
	Non rising stem, 1" size.		98.00
	Non rising stem, 1 1/2" size.		215.00
	Non rising stem, 2" size.		410.00
151 956-1060	Non rising stem, 3" size.		748.00
151 956-1040	Rising stem, class 150, 1" size.		125.00
151 956-1050	Rising stem, class 150, 1 1/2" size.		290.00
	Rising stem, class 150, 2" size.		575.00
and the second second	Rising stem, class 150, 3" size.	↓	890.00
151 957	GATE VALVES, FLANGED TYPE (BRONZE, CLASS 12		
151 957-1010	Non rising stem, 1" size.	EA	140.00
151 957-1020	Non rising stem, 1 1/2" size.		265.00
	Non rising stem, 2" size.		515.00
151 957-1040	Non rising stem, 3" size.	↓	825.00
151 958	CHECK VALVES, SWING THREADED TYPE (BRONZE	<u>):</u>	
151 958-1010	Size 1/2" dia.	EA	63.00
151 958-1020			70.00
151 958-1030		1 3 - 3 5	92.00
151 958-1040		JA SUL	167.00 212.00
151 958-1050			705.00
151 958-1060	20 C 20 C C C C C C C C C C C C C C C C	•	705.00
151 959 151 959-1010	CHECK VALVES, SWING FLANGED TYPE (BRONZE) Size 1" dia.	EA I	140.00
151 959-1010			265.00
151 959-1030			515.00
151 959-1040			825.00
151 960	GATE VALVES, BUTTERFLY WAFER TYPE (C.I.) :	· ·	
	Flanged type, 2" size.	EA	235.00
	Flanged type, 3" size.	26 100	418.00
	Flanged type, 4" size.	1 1 70	440.00

	N 15: MECHANICAL	problematics.	
CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
	0 Flanged type, 6" size.	1	478.0
151 961	GATE VALVES, BUTTERFLY, WAFER TYPE W/ CONTR	OL (C.I	.) :
151 961-101	0 Flanged type, 2" size.	EA	655.00
151 961-102	0 Flanged type, 3" size.		838.00
151 961-1030	0 Flanged type, 4" size.		1,020.00
151 961-1040	Flanged type, 6" size.		1,058.00
151 962	GATE VALVES, FLANGED TYPE (CAST IRON "C.I."):	<u> </u>	100000000000000000000000000000000000000
151 962-1010	Non rising stem, high pressure, 3" size.	EA	928.00
151 962-1020	Non rising stem, high pressure, 4" size.		1,407.00
	Non rising stem, high pressure, 6" size.		2,123.00
151 965	CHECK VALVES, SWING FLANGED TYPE (C.I.):	A	2,120.00
151 965-1010		EA	395.00
151 965-1020		-	928.00
151 965-1030	2 (Anti-1977)		ASSESSED TO SE
151 965-1040	Section 1997 - March 1997		1,407.00
151 966	S (ANNESS) 12 / ALEMSTER	★	2,123.00
151 966-1010	CHECK VALVES, SPRING THREADED TYPE (BRONZE		
		EA	47.00
151 966-1020 151 966-1030			56.00
151 966-1030	The state of the s	-	77.00
151 966-1050	4 - House 10 35 year 17475W	-1	108.00
151 967	AUTOMATIC PRESSURE RELIEF VALVE (BRONZE):	*	155.00
151 967-1010		EA	173.00
151 967-1020	2(2) (2) (2) (3) (3) (3) (3) (4) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		
151 967-1030		-	208.00
151 967-1040		-H	267.00
151 967-1050		\rightarrow	376.00
131 907-1030	A CONTRACTOR OF THE CONTRACTOR	+	847.00
151 968	PRESSURE REDUCING VALVE, (BRONZE), " ZURN - Will Series :	kins " N	MODEL#975XL
151 968-1010	Size 3/4" dia.	EA	615.00
151 968-1020		1	757.00
151 968-1030	Size 1 1/2" dia.		1,418.00
151 96 8-1040	Size 2" dia.	1	1,756.00
151 975	GATE VALVES (uPVC) :		
151 975-1010	Size 1/2" dia.	EA	25.00
151 975-1020	Size 3/4" dia.	21 24	30.00
151 975-1030	Size 1" dia.		37.00
151 975-1040			42.00
151 975-1050	11 12 12 12 12 12 12 12 12 12 12 12 12 1		67.00
151 975-1060	Size 3" dia.		96.00
151 975-1070	Size 4" dia.		148.00
151 976	BALL VALVES (uPVC) :	19.19	
151 976-1010	Size 1/2" dia.	EA	25.00
151 976-1020	Size 3/4" dia.		30.00

Mind of the Party	N 15: MECHANICAL	me i e	新华的学习的多 型的
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
151 976-1030	Size 1" dia.		35.0
151 976-1040	Size 1 1/2" dia.		40.0
151 976-1050	Size 2" dia.		62.0
151 976-1060	Size 3" dia.		88.0
151 976-1070	Size 4" dia.	+	127.0
152	PLUMBING FIXTURES:		
152 100	FIXTURES :		
152 104	BATH TUBS :		2 M 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
152 104-1010	Steel, Ceramic coated, Size 1500 mm approx. Long.	EA	525.0
152 104-1020	Steel, Ceramic coated, Size 1800 mm approx. Long.		680.0
152 104-1030	Acrylic, Corner model, Size 1200 mm X 1200 mm approx.		925.0
152 104-1040	Acrylic, Size 1500 mm X 700 mm approx.		795.0
152 104-1050	Acrylic, Size 1800 mm X 800 mm approx.		1,335.0
152 105	SHOWER TRAYS:		
152 105-1010	Recessed porcelain, Size 800 mm x 800 mm	EA	945.0
152 105-1020	Recessed porcelain, Size 900 mm x 900 mm		1,070.0
152 105-1030	Recessed Steel, Ceramic coated, Size 900 mm x 900 mm		575.0
AND THE PROPERTY OF STREET	Recessed Steel, Ceramic coated, Size 110 mm x110 mm		650.0
	Recessed Acrylic, Size 800 mm x 800 mm	_	505.0
	Recessed Acrylic, Size 900 mm x 900 mm	+	650.0
152 116	DRINKING WATER COOLER:	T	1 000 0
	Drinking fountain, wall mounted, recessed, st. steel, single tap.	EA	1,200.0
	Drinking fountain, floor mounted, stainless steel, single taps.		1,525.0
	Drinking fountain, floor mounted, stainless steel, double taps.		1,765.0
152 116-1040	Drinking fountain, floor mounted, stainless steel, triple taps.		2,345.0
Sometime of the state of the st	Drinking fountain, floor mounted, steel, w/ anti-rust coating, single tap.		1,065.0
	Drinking fountain, floor mounted, steel, w/ anti-rust coating, double taps.		1,200.0
	Drinking fountain, floor mounted, steel, w/ anti-rust coating, triple taps.		1,330.0
	Drinking fountain, floor mounted, fiberglass, single tap.		867.0
	Drinking fountain, floor mounted, fiberglass, double taps.	-	980.0
	Drinking fountain, floor mounted, fiberglass, triple taps.	+	1,075.0
52 128	INTERCEPTORS:		
	Interceptors, grease, cast iron, 250 mL/s, 5 kg fat capacity	EA	3,450.0
THE RESERVE TO SHARE	Interceptors, grease, cast iron, 1260 mL/s, 18 kg fat capacity		4,550.0
	Interceptors, grease, cast iron, 6300 mL/s, 55 kg fat capacity	32	5,890.0
	Interceptors, grease, cast iron, 6300 mL/s, 90 kg fat capacity		7,870.0
52 136	LAVATORIES:		
152 136-1010	Vanity counter top lavatory, vitreous china, (small size), complete with mounting accessories and Chrome P-Trap , " Saudi Ceramic " Mfg.	EA	345.0
152 136-1020	Vanity counter top lavatory, vitreous china, (large size), complete with mounting accessories and Chrome P-Trap , "Saudi Ceramic " Mfg.	- 13	425.0
152 136-1030	Vanity counter top lavatory, vitreous china, (small size), complete with mounting accessories and Chrome P-Trap, "American Standard" Mfg.	n E was	400.0
152 136-1040	Vanity counter top lavatory, vitreous china, (large size), complete with mounting accessories and Chrome P-Trap, "American Standard " Mfg.	=5.	565.0

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CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
152 136-1050	accessories and Chrome P-Trap, " Saudi Ceramic " Mfg.		525.0
152 136-1060	accessories and Chrome P-Trap, " Saudi Ceramic " Mfg.		630.0
152 136-1070	accessories and Chrome P-Trap, " Saudi Ceramic " Mfg.		575.0
152 136-1080	accessories and Chrome P-Trap, " Saudi Ceramic " Mfg.		655.0
152 136-1090	accessories and Chrome P-Trap, " American Standard " Mfg.		580.
152 136-1100	accessories and Chrome P-Trap, " American Standard " Mfg.		675.0
152 136-1110	Lavatory, vitreous china, medium size, complete with floor type bedstal, mounting accessories and Chrome P-Trap, " American Standard " Mfg.		610.0
152 136-1120	Lavatory, vitreous china, large size, complete with floor type bedstal, mounting accessories and Chrome P-Trap, " American Standard " Mfg.	+	705.0
152 140	CLEANING SINK :		
152 140-1010	Single bowl, stainless steel, 550 mm x 550 mm, 250 mm deep approx.	EA	1,235.0
152 140-1020 1 52 152	Single bowl, vitreous china, 560 mm x 450 mm, 250 mm deep approx. SINKS:	EA	1,765.0
152 152-1010	Single bowl, stainless steel, 460 mm x 510 mm, 235 mm deep approx. without wings.	EA	525.0
152 152-1020	Single bowl, stainless steel, 500 mm x 900 mm, 200 mm deep approx. with single wing.		575.0
152 152-1030	Single bowl, stainless steel, 500 mm x 1200 mm, 200 mm deep approx. with double wings.		645.0
152 152-1040	Single bowl, stainless steel, 600 mm x 900 mm, 200 mm deep approx. with single wing.		625.0
152 152-1050	Single bowl, stainless steel, 600 mm x 1200 mm, 200 mm deep approx. with double wings.		670.0
52 168	URINALS:		40
152 168-1010	Urinals, wall hung, vitreous china, " Saudi Ceramic ", with flush valve.	EA	420.0
152 168-1020	Urinals, wall hung, vitreous china, " American Standard ", with flush valve.	EA	675.0
52 180	WATER CLOSETS:	M 1800	
152 180-1010	Water closet, wall hung, vitreous china, " Saudi Ceramic ", complete with flush tank and seat.	EA	745.0
152 180-1020	Water closet, wall hung, vitreous china, " American Standard ", complete with flush tank and seat.	EA	1,890.0
152 180-1030	Water closet, floor mounting, vitreous china, " Saudi Ceramic ", complete with flush tank and seat.	-	590.0
152 180-1040	Water closet, floor mounting, vitreous china, " American Standard ", complete with flush tank and seat.		1,685.0
152 180-1050	Water closet, wall hung, vitreous china, " Saudi Ceramic ", complete with flush valve and seat.		1,065.0
100 1000	Water closet, wall hung, vitreous china, " American Standard ", complete with flush valve and seat.		2,265.0
100 1070	Water closet, floor mounting, vitreous china, " Saudi Ceramic ", complete with flush valve and seat.	1.2	975.0
100 1000	Water closet, floor mounting, vitreous china, " American Standard ", complete with flush valve and seat.		1,995.0
102 100 1000	Water closet, wall hung, vitreous china, " Saudi Ceramic ", complete with concealed flush tank and seat.	-	845.0
102 100 1100	Water closet, wall hung, vitreous china, " American Standard ", complete with concealed flush tank and seat.		2,390 0
	Water closet, floor mounting, vitreous china, " Saudi Ceramic ", complete with		

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CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
152 180-1120	Water closet, floor mounting, vitreous china, " American Standard ", complete with concealed flush tank and seat.	↓	1,830.0
152 200	FIXTURES FAUCETS & FITTINGS :		
152 200-1010	Bath tub / Shower tray mixer, faucet, head and diverter spout combination "GROHE", classic type.	EA	675.00
152 200-1020	Bath tub / Shower tray mixer, faucet , head and diverter spout combination "GROHE", high quality type .	a	1,030.0
152 200-1030	Bath tub / Shower tray mixer, faucet, head and diverter spout combination, luxury type.		1,485.0
152 200-1040	Lavatory mixer, faucets and angle valves, "GROHE", classic type.		545.0
152 200-1050	Lavatory mixer, faucets and angle valves, "GROHE", high quality type.		975.00
152 200-1060	Lavatory mixer, faucets and angle valves, luxury type.		1,270.00
152 200-1070	Sink mixer, faucets and angle valves, "GROHE", classic type.		505.0
152 200-1080	Sink mixer, faucets and angle valves, "GROHE", high quality type .		890.00
152 200-1090	Sink mixer, faucets and angle valves, luxury type.	+	1,090.00
152 400	PUMPS		
152 410	HOT WATER CIRCULATING PUMPS :	Te	
152 410-1010	Vertical pump, "GRUNDFOS", 15 gpm capacity, 25 meters head, 220/1/60hz.	EA	1,925.0
152 410-1020	Vertical pump, "GRUNDFOS", 30 gpm capacity, 35 meters head, 220/1/60hz.	EA	2,375.0
152 415	PUMPS, CONDENSATE RETURN SYSTEM		
152 415-1010	Pump, condensate, simplex, motor, float switch, controls, cast iron receiver	EA	
152 430	PUMPS, GENERAL UTILITY With motor, mount	ed on b	ase
152 430-1010	Pump, general utility, multi-stage, horizontal split, for boiler feed applications two stage, 76 mm discharge x 100 mm suction, 75 HP	EA	28,500.00
152 430-1010	Pump, general utility, single stage, end suction, 38 mm discharge x 76 mm suction, 10 HP		4,950.0
152 430-1010	Pump, general utility, single stage, double suction, 76 mm discharge x 100 mm suction, 20 HP		19,250.0
152 450	PUMPS, PRESSURE BOOSTER SYSTEM		
152 450-1010	Pressure booster pump system, with diaphragm tank, control, pressure switch, 2 HP, (2 No's.)	Set	19,350.00
152 450-1010	Preserver booster pump system, with diaphragm tank, control pressure switch 4 HP, (2 No's.)	Set	32,500.00
152 460	SUMP PUMP :		
	Sump pump, 1325 mL/s at 4.5 mm head	EA	3,750.00
152 465	PUMPS, SEWAGE EJECTOR	185 2 15	
152 465-1010	Pump, sewage ejector simplex system incl. tank, cover, 140 liter, polyethylene tank, 757 mL/s, 1/2 HP, 76 mm discharge (3") Pump, sewage ejector, simplex system including tank, cover, 4.5 m head, 265	EA	5,250.00
152 465-1010 1 52 480	Liter, polyethylene tank, 975 mL/s, 3/4 HP, 90 mm discharge PUMPS, SUBMERSIBLE	EA	6,800.00
	Submersible, sump pump, automatic, cast iron, 32 mm discharge, 1/2 HP	EA	5,100.00
153 110	WATER HEATERS: For solar, see Divis		
		EA	1,475.00
Marie 2012 Pro-serve	Residential, water heater, electric, glass lined tank, 20 gallon, single element Residential, water heater, electric, glass lined tank, 40 gallon, double element		1,690.00
153 110-6070	Water heater, galvanized iron, polyurethane foam insulation, 240/127 voltage, 30 gal. capacity	71	790.00
	Water heater, galvanized iron, polyurethane foam insulation, 240/127 voltage, 50	7	860.00

CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
153 110-6090	Water heater, galvanized iron, polyurethane foam insulation, 240/127 voltage, 80 gal. capacity		1,355.0
153 110-6100	Water heater galvanized iron polygrathana form inculation 240/127 voltage 100		2,400.0
153 150	WATER TREATMENT, POTABLE:		
153 150-6100	Water treatment, potable, softener systems, automatic, hardness capacity between regenerations and flow, 150,000 grains 2.3 L/s cont., 3.2 L/s peak	EA	6,850.0
153 150-6400	Water treatment, potable, softener systems, automatic, hardness capacity between regenerations and flow, 900,000 grains 11.7 L/s cont., 17.0 L/s peak	EA	12,500.0
153 160	WATER SUPPLY METERS		
153 160-2100	Water meter, domestic/commercial, bronze, threaded, 25 mm diameter, to 3.2 L/s	EA	625.0
153 160-2340	Water meter, domestic/commercial, bronze, threaded/flanged, 38 mm diameter,	EA	625.0
153 160-2360	to 6.31 L/s Water meter, domestic/commercial, bronze, threaded/flanged, 50 mm diameter, to 10.1 L/s		1,250.0
153 160-2650	Water meter, domestic/commercial, bronze, flanged, compound, 90 mm diameter, to 31.6 L/s		4,650.0
154	FIRE PROTECTION		
54 100	FIRE SYSTEMS		
54 101	AUTOMATIC FIRE SUPPRESSION SYSTEMS		
	Automatic fire suppression systems, dispersion nozzle, CO2, 76 mm x 127 mm	EA	380.0
154 101-1050	Automatic fire suppression systems, dispersion nozzle, CO2, 150 mm x 60 mm x 40 mm		9,500.0
154 101-1100	Automatic fire suppression systems, dispersion nozzle, FM200, 38 mm		4,750.0
154 101-1150	Fire extinguishing system (CO2 system) for data room (12 sqr.meters area), high pressure, 23 kg cylinder , with mounting brackets .		23,500.0
154 101-1200	Fire extinguishing system (FM 200 system) for data room (12 sqr.meters area), high pressure, with mounting brackets.		34,000.0
54 115	FIRE EQUIPMENT CABINETS		
154 115-3000	Fire cabinet, 20 ga. steel box, hose rack assy. 1 1/2" valve & 30 m rubber hose, 610 mm x 1016 mm, with steel frame and Aluminum door.	EA	2,700.0
154 115-3300	Fire cabinet, 20 ga. steel box, hose rack assy. 1 1/2" valve & 30 m rubber hose, 610 mm x 1016 mm, with steel frame and St. Steel door.	EA	2,600.0
54 125	FIRE EXTINGUISHERS	-	
	Fire extinguishers, ABC all purpose type 10 kg	EA	200.00
154 125-2300	Fire extinguishers, ABC all purpose type 50 kg, wheeled	EA	900.0
54 135	FIRE HOSE AND EQUIPMENT		
154 135-2640	Fire hose rack, swinging, for 38 mm diameter hose, enameled steel, 30 m lengths of hose	EA	1,475.0
154 135-3840	Fire connection, wall type, with caps, single, flush, polished brass.	The Control	1,500.0
154 135-7180	Fire, standpipe connections, wall, w/ plugs and chains, single, flush, brass 64 mm x 76 mm	94 18	1,500.00
154 135-7240	Fire, standpipe connections, wall, w/ plugs & chains, single, flush, polished chrome 64 mm x 76 mm		1,950.00
154 135-7330	Fire, standpipe connections, double flush, brass, 64 mm x 64 mm x 150 mm		2,675.00
154 135-7400	Fire, standpipe connections, double flush, polished chrome, 64 mm x 64 mm x 150 mm	•	2,845.00
	FIRE HYDRANTS :		
154 140-0020	Fire Department Connection ('Y' - wall type), 3" size, moderate climate, bronze	EA	2,300.00

154 140-5120 Fire valve 154 145-0200 Fire mm 154 145-0210 Fire mm 154 145-0210 Fire mm 154 145-0200 Fire mm 154 145-0200 Fire mm 154 145-3200 Fire mm 154 145-3200 Fire pum 154 145-3200 Fire pum 154 145-3210 Fire pum 154 145-3210 Fire pum 154 145-3210 Fire pum 154 145-3210 Fire pum 154 145-300 Jock 154 145-5010 Jock 154 145-5010 Jock 154 170-2700 Sprin 154 170-3600 Sprin 154 170-3600 Sprin 154 170-3600 Sprin 154 170-4520 Sprin 154 170-4520 Sprin 154 170-4520 Sprin 154 170-4520 Sprin 155 100 BC 155 110-1160 Steat 155 110-1280 Steat 155 110-1280 Steat 155 110-1280 Steat 155 110-1280 Steat	pump with controller, and relief valve, electric 500 GPM, 120 psi, 110 mm p. pump with controller, and relief valve, electric 750 GPM, 130 psi, 110 mm p. pump with controller, and relief valve, electric 1000 GPM, 130 psi, 125 mm p. ey pump 25 mm with control, 120 psi, 5 GPM. ey pump 25 mm with control, 130 psi, 7.5 GPM. ey pump 32 mm with control, 130 psi, 10 GPM.	EA	COST PER UNIT (SR) 3,550.0 6,750.0 63,000.0 75,000.0 89,000.0 130,000.0 28,750.0 40,500.0 71,500.0 8,500.0 12,500.0
154 140-5120 Fire valve 154 145-0200 Fire mm 154 145-0210 Fire mm 154 145-0210 Fire mm 154 145-0800 Fire mm 154 145-3200 Fire mm 154 145-3200 Fire pum 154 145-3210 Fire pum 154 145-300 Jock 154 145-5010 Jock 154 145-5010 Jock 154 145-5020 Jock 154 170-2700 Sprin 154 170-3600 Sprin 154 170-3600 Sprin 154 170-3600 Sprin 154 170-4520 Sprin 155 110 BC 155 110 BC 155 110-1280 Steat	and caps, but chrome plated. Hydrant , Steel Body , size 4" X 2 1/2" X 4" , complete with valve, key and box . E PUMPS pump with controller, and relief valve, diesel 250 GPM, 105 psi, 27 HP, 110 pump pump with controller, and relief valve, diesel 500 GPM, 120 psi, 40 HP, 125 pump pump with controller, and relief valve, diesel 750 GPM, 130 psi, 55 HP, 125 pump pump with controller, and relief valve, diesel 1000 GPM, 147 psi, 70 HP, 150 pump pump with controller and relief valve, electric 32 L/s, 345 kPa, 27 HP, 1770 II, 100 mm pump pump with controller, and relief valve, electric 250 GPM, 105 psi, 90 mm pump with controller, and relief valve, electric 500 GPM, 120 psi, 110 mm pump with controller, and relief valve, electric 750 GPM, 130 psi, 110 mm pump with controller, and relief valve, electric 1000 GPM, 130 psi, 125 mm pump with controller, and relief valve, electric 1000 GPM, 130 psi, 125 mm pump with controller, and relief valve, electric 1000 GPM, 130 psi, 125 mm pump young 25 mm with control, 120 psi, 5 GPM. ey pump 25 mm with control, 130 psi, 7.5 GPM.	EA	6,750.0 63,000.0 75,000.0 89,000.0 130,000.0 37,925.0 28,750.0 40,500.0 57,500.0 71,500.0
154 140-5120 Fire valve 154 145-0200 Fire mm 154 145-0210 Fire mm 154 145-0210 Fire mm 154 145-0800 Fire mm 154 145-3200 Fire mm 154 145-3200 Fire pum 154 145-3210 Fire pum 154 145-3210 Fire pum 154 145-3400 Fire pum 154 145-300 Jock 154 145-5010 Jock 154 145-5020 Jock 154 170-2700 Sprin 154 170-3600 Sprin 154 170-3600 Sprin 154 170-3600 Sprin 154 170-4520 Sprin 154 170-4520 Sprin 154 170-4820 Sprin 155 100 BC 155 110-1160 Steat 155 110-1280 Steat 155 110-1280 Steat 155 110-1280 Steat	Hydrant , Steel Body , size 4" X 2 1/2" X 4" , complete with valve, key and e box . E PUMPS pump with controller, and relief valve, diesel 250 GPM, 105 psi, 27 HP, 110 pump pump with controller, and relief valve, diesel 500 GPM, 120 psi, 40 HP, 125 pump pump with controller, and relief valve, diesel 750 GPM, 130 psi, 55 HP, 125 pump pump with controller, and relief valve, diesel 1000 GPM, 147 psi, 70 HP, 150 pump pump with controller and relief valve, electric 32 L/s, 345 kPa, 27 HP, 1770 II, 100 mm pump pump with controller, and relief valve, electric 250 GPM, 105 psi, 90 mm p . pump with controller, and relief valve, electric 500 GPM, 120 psi, 110 mm p . pump with controller, and relief valve, electric 750 GPM, 130 psi, 110 mm p . pump with controller, and relief valve, electric 1000 GPM, 130 psi, 125 mm p . ey pump 25 mm with control, 120 psi, 5 GPM . ey pump 25 mm with control, 130 psi, 7.5 GPM .	EA	63,000.0 75,000.0 89,000.0 130,000.0 37,925.0 28,750.0 40,500.0 57,500.0 71,500.0
154 145-0200 Fire mm 154 145-0210 Fire mm 154 145-0700 Fire mm 154 145-0800 Fire mm 154 145-3200 Fire pum 154 145-3210 Fire pum 154 145-3410 Fire pum 154 145-3410 Fire pum 154 145-3420 Fire pum 154 145-5010 Jock 154 145-5010 Jock 154 170-2700 Sprii 154 170-3600 Sprii 154 170-3610 Sprii 154 170-4520 Sprii 154 170-4520 Sprii 154 170-4520 Sprii 154 170-4520 Sprii 155 100 BC 155 110 BC 155 110-1280 Steat 155 110-2100 Boile	pump with controller, and relief valve, diesel 250 GPM, 105 psi, 27 HP, 110 pump pump with controller, and relief valve, diesel 500 GPM, 120 psi, 40 HP, 125 pump pump with controller, and relief valve, diesel 750 GPM, 130 psi, 55 HP, 125 pump pump with controller, and relief valve, diesel 1000 GPM, 147 psi, 70 HP, 150 pump pump with controller and relief valve, electric 32 L/s, 345 kPa, 27 HP, 1770 l, 100 mm pump pump with controller, and relief valve, electric 250 GPM, 105 psi, 90 mm p. pump with controller, and relief valve, electric 500 GPM, 120 psi, 110 mm p. pump with controller, and relief valve, electric 750 GPM, 130 psi, 110 mm pump pump with controller, and relief valve, electric 1000 GPM, 130 psi, 110 mm p. pump with controller, and relief valve, electric 1000 GPM, 130 psi, 125 mm p. ey pump 25 mm with control, 120 psi, 5 GPM . ey pump 25 mm with control, 130 psi, 7.5 GPM .	EA	75,000.0 89,000.0 130,000.0 37,925.0 28,750.0 40,500.0 57,500.0 71,500.0
154 145-0200 mm 154 145-0210 Fire mm 154 145-0800 Fire mm 154 145-3200 Fire RPM 154 145-3210 Fire pum 154 145-3410 Fire pum 154 145-3410 Fire pum 154 145-3410 Jock 154 145-5020 Jock 154 145-5010 Jock 154 145-5020 Jock 154 170-2700 Sprii 154 170-3600 Sprii 154 170-3610 Sprii 154 170-4520 Sprii 155 100 BC 155 110 BC 155 110-1280 Stea	pump with controller, and relief valve, diesel 500 GPM, 120 psi, 40 HP, 125 pump pump with controller, and relief valve, diesel 750 GPM, 130 psi, 55 HP, 125 pump pump with controller, and relief valve, diesel 1000 GPM, 147 psi, 70 HP, 150 pump pump with controller and relief valve, electric 32 L/s, 345 kPa, 27 HP, 1770 l, 100 mm pump pump with controller, and relief valve, electric 250 GPM, 105 psi, 90 mm p. pump with controller, and relief valve, electric 500 GPM, 120 psi, 110 mm p. pump with controller, and relief valve, electric 750 GPM, 130 psi, 110 mm pump with controller, and relief valve, electric 1000 GPM, 130 psi, 125 mm pump with controller, and relief valve, electric 1000 GPM, 130 psi, 125 mm pump with controller, and relief valve, electric 1000 GPM, 130 psi, 125 mm pump with controller, and relief valve, electric 1000 GPM.	EA	75,000.0 89,000.0 130,000.0 37,925.0 28,750.0 40,500.0 57,500.0 71,500.0
154 145-0210 mm 154 145-0800 Fire mm 154 145-3200 Fire RPM 154 145-3210 Fire pum 154 145-3410 Fire pum 154 145-3410 Fire pum 154 145-3420 Fire pum 154 145-3420 Fire pum 154 145-5020 Jock 154 145-5020 Jock 154 145-5020 Jock 154 170-2700 Sprii 154 170-3600 Sprii 154 170-3610 Sprii 154 170-4520 Sprii 155 100 BC 155 110 BC 155 110-1280 Stea	pump with controller, and relief valve, diesel 750 GPM, 130 psi, 55 HP, 125 pump pump with controller, and relief valve, diesel 1000 GPM, 147 psi, 70 HP, 150 pump pump with controller and relief valve, electric 32 L/s, 345 kPa, 27 HP, 1770 l, 100 mm pump pump with controller, and relief valve, electric 250 GPM, 105 psi, 90 mm pump with controller, and relief valve, electric 500 GPM, 120 psi, 110 mm pump with controller, and relief valve, electric 750 GPM, 130 psi, 110 mm pump with controller, and relief valve, electric 750 GPM, 130 psi, 110 mm pump with controller, and relief valve, electric 1000 GPM, 130 psi, 125 mm pump with controller, and relief valve, electric 1000 GPM, 130 psi, 125 mm pump with controller, and relief valve, electric 1000 GPM, 130 psi, 125 mm pump 25 mm with control, 120 psi, 5 GPM. The pump 25 mm with control, 130 psi, 7.5 GPM.		89,000.0 130,000.0 37,925.0 28,750.0 40,500.0 57,500.0 71,500.0
154 145-0800 mm 154 145-3200 Fire RPM 154 145-3210 Fire pum 154 145-3410 Fire pum 154 145-3410 Fire pum 154 145-3420 Fire pum 154 145-3420 Fire pum 154 145-5000 Jock 154 145-5010 Jock 154 145-5020 Jock 154 170-2700 Sprii 154 170-3600 Sprii 154 170-3610 Sprii 154 170-4520 Sprii 155 100 BC 155 110 BC 155 110-1280 Stea	pump pump with controller, and relief valve, diesel 1000 GPM, 147 psi, 70 HP, 150 pump pump with controller and relief valve, electric 32 L/s, 345 kPa, 27 HP, 1770 l, 100 mm pump pump with controller, and relief valve, electric 250 GPM, 105 psi, 90 mm p. pump with controller, and relief valve, electric 500 GPM, 120 psi, 110 mm p. pump with controller, and relief valve, electric 750 GPM, 130 psi, 110 mm pump with controller, and relief valve, electric 750 GPM, 130 psi, 110 mm pump with controller, and relief valve, electric 1000 GPM, 130 psi, 125 mm p. ey pump 25 mm with control, 120 psi, 5 GPM . ey pump 25 mm with control, 130 psi, 7.5 GPM . ey pump 32 mm with control, 130 psi, 10 GPM .		130,000.0 37,925.0 28,750.0 40,500.0 57,500.0 71,500.0
154 145-3200 mm 154 145-3210 Fire pum 154 145-3400 Fire pum 154 145-3410 Fire pum 154 145-3410 Fire pum 154 145-3420 Fire pum 154 145-5000 Jock 154 145-5010 Jock 154 145-5020 Jock 154 170-2700 Sprii 154 170-3600 Sprii 154 170-3600 Sprii 154 170-4520 Sprii 155 100 BC 155 110 BC 155 110-1160 Stea	pump pump with controller and relief valve, electric 32 L/s, 345 kPa, 27 HP, 1770 l, 100 mm pump pump with controller, and relief valve, electric 250 GPM, 105 psi, 90 mm p. pump with controller, and relief valve, electric 500 GPM, 120 psi, 110 mm p. pump with controller, and relief valve, electric 750 GPM, 130 psi, 110 mm p. pump with controller, and relief valve, electric 750 GPM, 130 psi, 110 mm p. pump with controller, and relief valve, electric 1000 GPM, 130 psi, 125 mm p. ey pump 25 mm with control, 120 psi, 5 GPM. ey pump 25 mm with control, 130 psi, 7.5 GPM.		37,925.0 28,750.0 40,500.0 57,500.0 71,500.0
154 145-3210 Fire pum 154 145-3410 Fire pum 154 145-3410 Fire pum 154 145-3420 Fire pum 154 145-3420 Fire pum 154 145-5000 Jock 154 145-5010 Jock 154 145-5020 Jock 154 170-2700 Sprii 154 170-3600 Sprii 154 170-3600 Sprii 154 170-4520 Sprii 154 170-4520 Sprii 154 170-4530 Sprii 154 170-4530 Sprii 154 170-4530 Sprii 155 100 BC 155 110 BC 155 110-1280 Stea	pump with controller, and relief valve, electric 250 GPM, 105 psi, 90 mm p. pump with controller, and relief valve, electric 500 GPM, 120 psi, 110 mm p. pump with controller, and relief valve, electric 750 GPM, 130 psi, 110 mm p. pump with controller, and relief valve, electric 750 GPM, 130 psi, 110 mm p. pump with controller, and relief valve, electric 1000 GPM, 130 psi, 125 mm p. ey pump 25 mm with control, 120 psi, 5 GPM. ey pump 25 mm with control, 130 psi, 7.5 GPM.		28,750.0 40,500.0 57,500.0 71,500.0 8,500.0
154 145-3410 Fire pum 154 145-3410 Fire pum 154 145-3420 Fire pum 154 145-3420 Fire pum 154 145-5000 Jock 154 145-5010 Jock 154 145-5020 Jock 154 170-2700 Sprii 154 170-3600 Sprii 154 170-4520 Sprii 154 170-1520 Sprii 155 100 BC 155 110 BC 155 110-1280 Stea	pump with controller, and relief valve, electric 500 GPM, 120 psi, 110 mm p. pump with controller, and relief valve, electric 750 GPM, 130 psi, 110 mm p. pump with controller, and relief valve, electric 1000 GPM, 130 psi, 125 mm p. ey pump 25 mm with control, 120 psi, 5 GPM. ey pump 25 mm with control, 130 psi, 7.5 GPM. ey pump 32 mm with control, 130 psi, 10 GPM.		40,500.0 57,500.0 71,500.0 8,500.0
154 145-3410 pum 154 145-3410 Fire pum 154 145-3420 Fire pum 154 145-5000 Jock 154 145-5010 Jock 154 145-5020 Jock 154 170-2700 Sprii 154 170-3600 Sprii 154 170-3610 Sprii 154 170-4520 Sprii 154 170-4520 Sprii 154 170-4530 Sprii 154 170-4530 Sprii 155 100 BC 155 110 BC 155 110-1280 Stea	pump with controller, and relief valve, electric 750 GPM, 130 psi, 110 mm pump with controller, and relief valve, electric 1000 GPM, 130 psi, 125 mm pump with controller, and relief valve, electric 1000 GPM, 130 psi, 125 mm pump 25 mm with control, 120 psi, 5 GPM. ey pump 25 mm with control, 130 psi, 7.5 GPM. ey pump 32 mm with control, 130 psi, 10 GPM.		57,500.0 71,500.0 8,500.0
154 145-3420 Fire pum 154 145-3420 Fire pum 154 145-5000 Jock 154 145-5010 Jock 154 145-5020 Jock 154 170 SP 154 170-2700 Sprii 154 170-3600 Sprii 154 170-3610 Sprii 154 170-4520 Sprii 154 170-4520 Sprii 154 170-4820 Sprii 155 100 BC 155 110 BC 155 110-1280 Stea	pump with controller, and relief valve, electric 1000 GPM, 130 psi, 125 mm p ey pump 25 mm with control, 120 psi, 5 GPM. ey pump 25 mm with control, 130 psi, 7.5 GPM. ey pump 32 mm with control, 130 psi, 10 GPM.		71,500.0 8,500.0
154 145-5000 Jock 154 145-5010 Jock 154 145-5020 Jock 154 145-5020 Jock 154 170 SP 154 170-2700 Sprin 154 170-3600 Sprin 154 170-3610 Sprin 154 170-4520 Sprin 154 170-4520 Sprin 154 170-4530 Sprin 154 170-4820 Sprin 155 100 BC 155 110 BC 155 110-1160 Steal 155 110-1280 Steal 155 110-2100 Boile	ey pump 25 mm with control, 120 psi, 5 GPM. ey pump 25 mm with control, 130 psi, 7.5 GPM. ey pump 32 mm with control, 130 psi, 10 GPM.		8,500.0
154 145-5010 Jock 154 145-5020 Jock 154 170 SP 154 170-2700 Sprii 154 170-3600 Sprii 154 170-3610 Sprii 154 170-4520 Sprii 154 170-4530 Sprii 154 170-4820 Sprii 155 100 BC 155 110 BC 155 110-1160 Stea 155 110-1280 Stea 155 110-2100 Boile	ey pump 25 mm with control, 130 psi, 7.5 GPM. ey pump 32 mm with control, 130 psi, 10 GPM.		
154 145-5020 Jock 54 170 SP 154 170-2700 Sprii 154 170-3600 Sprii 154 170-3610 Sprii 154 170-4520 Sprii 154 170-4520 Sprii 154 170-4820 Sprii 155 100 BC 155 110 BC 155 110-1160 Steat 155 110-1280 Steat 155 110-2100 Boile	ey pump 32 mm with control, 130 psi, 10 GPM.		12,500.0
54 170 SP 154 170-2700 Sprii 154 170-3600 Sprii 154 170-3610 Sprii 154 170-4520 Sprii 154 170-4530 Sprii 154 170-4820 Sprii 155 100 BC 155 110 BC 155 110-1160 Steat 155 110-1280 Steat 155 110-2100 Boile	TORROSCO SE LO COMO DE		
154 170-2700 Sprii 154 170-3600 Sprii 154 170-3610 Sprii 154 170-4520 Sprii 154 170-4530 Sprii 154 170-4820 Sprii 155 100 BC 155 110 BC 155 110-1160 Stea 155 110-1280 Stea		+	14,750.0
154 170-3600 Sprii 154 170-3610 Sprii 154 170-4520 Sprii 154 170-4530 Sprii 154 170-4820 Sprii 155 100 BC 155 110 BC 155 110-1160 Stea 155 110-1280 Stea 155 110-2100 Boile	RINKLER SYSTEM COMPONENTS :		
154 170-3610 Sprii 154 170-4520 Sprii 154 170-4530 Sprii 154 170-4820 Sprii 0 orific 155 100 BC 155 110 BC 155 110-1160 Stea 155 110-1280 Stea 155 110-2100 Boile	nkler heads, dry, pendant, 13 mm orifice, 20 mm size, brass.	EA	350.0
154 170-4520 Sprii 154 170-4530 Sprii 154 170-4820 Sprii 155 H 155 100 BC 155 110 BC 155 110-1160 Steal 155 110-1280 Steal 155 110-2100 Boile	nkler heads, water, pendant or upright, 13 mm size, chrome finish		45.0
154 170-4530 Sprii 154 170-4820 Sprii orifici 155 100 BC 155 110 BC 155 110-1160 Stea 155 110-1280 Stea 155 110-2100 Boile	nkler heads, water, pendant or upright, 13 mm size, brass finish		38.0
154 170-4820 Spring orifical Spring original S	nkler head, water, sidewall, brass finish, 13 mm orifice		45.0
155 100 BC 155 110 BC 155 110-1160 Stea 155 110-1280 Stea 155 110-2100 Boile	nkler head, water, sidewall, chrome finish, 13 mm orifice		38.0
155 100 BC 155 110 BO 155 110-1160 Stea 155 110-1280 Stea 155 110-2100 Boile	nkler head, water, recessed pendant, brass to 415 K, 13 mm NPT, 13 mm	↓	55.0
155 110 BO 155 110-1160 Stea 155 110-1280 Stea 155 110-2100 Boile	EATING		
155 110-1160 Stea 155 110-1280 Stea 155 110-2100 Boile	DILERS		The state of the s
155 110-1160 Stea 155 110-1280 Stea 155 110-2100 Boile	ILERS ELECTRIC	A Section	
155 110-1280 Stea 155 110-2100 Boile	m boiler, electric fired, including standard controls and trim 60 kW	EA	24,700.0
155 110-2100 Boile	m boiler, electric fired, including standard controls and trim 225 kW	201	83,350.0
The state of the s	ers, hot water, electric fired, including standard controls & trim 60 kW	14	24,700.0
155 110-2320 Bolle	ers, hot water, electric fired, including standard controls & trim 500 kW	a State of the	122,480.0
FF 445 DO		- 7-7-	11.
	ILERS, GAS FIRED		
outp	m boiler, gas fired, standard control, cast iron, with insulated jacket, gross ut 220 kW	EA	71,500.0
outp	m boiler and fired standard control cost iron with insulated include areas	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	108,400.0
155 115-3140 gros	m boiler, gas fired, standard control, cast iron, with insulated jacket, gross ut 550 kW		54,345.0
155 115-3380 Hot outp			116,750.0

CSI	ITEM DESCRIPTION	LINUT	COST PER
CODE	TIEM DESCRIPTION	UNIT	UNIT (SR)
155 115-612	Hot water boiler, gas fired, standard controls, steel, with insulated jacket, gross output 65 kW		59,750.
155 115-624	Hot water boiler, gas fired, standard controls, steel, with insulated jacket, gross output 280 kW		68,275.
155 150	SWIMMING POOL HEATERS		
155 150-028	Pool heaters, gas fired, gross output, 145 kW	EA	18,750.
155 150-0400	Pool heaters, gas fired, gross output, 465 kW		52,345.
155 150-2100	Pool heaters, electric, 36 kW, 91 CUM pool		9,350.
	Pool heater, electric, 45 kW		12,900.
155 400	WARM AIR SYSTEMS		12,900.
155 408	DUCT HEATERS		
155 408-0100	Duct hoster electric Franchista Land	EA	1,170.0
155 408-0120	Duct heater, electric, finned tabular insert 533 K, 200 mm wide x 300 mm high 8.0 kW		1,350.
155 408-0160	16.0 kW		2,235.0
155 408-0180	Duct heater, electric, finned tabular insert 533 K, 200 mm wide x 760 mm high 20.0 kW		3,290.0
155 408-0300	Duct heater, electric, finned tabular insert 533 K, 300 mm wide x 150 mm high 6.7 kW	15	790.
155 408-0760 55 408	Duct heater, electric, finned tabular insert 533 K, 300 mm wide x 600 mm high 26.7 kW	<u> </u>	3,800.
	HEATING & VENTILATING UNITS Heating and ventilating unit, classroom type including filter, heating/cooling coils,		
155 440-0140	and standard control, 0,7 cum/s, 14 kW cooling	EA	13,600.0
55 471	SOLAR ENERGY		
155 471-0620	Solar heating, standard low temperature package, 3 collectors, circulator, fittings, 500 L tank	EA	38,000.0
55 600	HEATING SYSTEM ACCESSORIES		
55 601	HEAT EXCHANGERS		
155 601-0220	Heat exchangers, shell & tube type, 4 pass, 19 mm O.D. copper tubes, C.I. heads, C.I. tube sheet, steel shell, hot water 355 K, by steam at 69 kPa, 7.6 L/s	EA	16,835.0
55 610	HEAT TRANSFER PACKAGES	L	
155 610-1060	Heat transfer package, hot water, 350 K enter, 360 K leaving, 100 kPa steam one pump, 7.5 L/s	EA	48,850.0
55 640	HUMIDIFIERS		
155 640-0560	Humidifier, steam, room or duct, filter, regulators, auto, controls, 220 V, 5 kg/hr	EA	1,875.0
155 640-0570	Humidifier, steam, room or duct, filter, regulators, auto, controls, 220 V, 10 kg/hr		3,050.0
	Humidifier, steam, room or duct, filter, regulators, auto, controls, 220 V, 15 kg/hr		3,880.0
The state of the s	Humidifier, steam, room or duct, filter, regulators, auto, controls, 220 V, 45 kg/hr		6,750.0
	PIPE INSULATION		William Control
	Pipe insulating with rubber tubing, flexible, 10 mm wall, for 20 mm pipe size	LM	14.00
	Pipe insulating with rubber tubing, flexible, 10 mm wall, for 25 mm pipe size		17.00
	Pipe insulating with rubber tubing, flexible, 13 mm wall, for 25 mm pipe size		20.00
	Pipe insulating with rubber tubing, flexible, 13 mm wall, for 50 mm pipe size	-	32.00
155 651-8380	Pipe insulating with rubber tubing, flexible, 19 mm wall, for 50 mm pipe size		

CSI	ITEM DESCRIPTION	UNIT	COST PER
CODE	HEM DESCRIPTION	ONIT	UNIT (SR)
155 680-0140	Chimney vent, gas or all fuel, double wall, stainless steel, 150 mm diameter	LM	120.00
San Children Control of the Control	Chimney vent, gas, double wall, galvanized steel, 200 mm diameter	LM	135.00
156	HVAC PIPING SPECIALTIES		a a
56 200	HEAT / COOL PIPING MISCELLANEOUS		
56 201	AUTOMATIC AIR VENT		
156 201-0220	Automatic air vent (AAV) copper body, stainless steel internals, float type, 20 mm NPT inlet, 1724 kPa (3/4")	EA	165.00
156 201-0340	Automatic air vent (AAV) C.I. body, stainless steel internals, float type, 38 mm NPT inlet, 1724 kPa	EA	785.00
56 205	AIR CONTROL		
E-ONLY CHAIN WARRENCE	Air control with strainer 50 mm diameter (2")	EA	1,450.00
	Air control with strainer 100 mm diameter (4")	EA	3,765.00
156 225	EXPANSION JOINTS Bellows type, neoprene cover, fi	anged s	pool
	Expansion joint, bellow type, neoprene cover, flanged spool, 25 mm diameter	EA	93.00
156 225-0180	Expansion joint, bellow type, neoprene cover, flanged spool, 50 mm diameter	EA	160.00
156 235	FLEXIBLE METAL HOSE		
156 235-0180	Flexible metal hose connector, bronze braided, bronze ends, 25 mm diameter x 300 mm	EA	127.00
156 235-0220	Flexible metal hose connector, bronze braided, bronze ends, 50 mm diameter x 300 mm	EA	243.00
156 240	HEATING CONTROL VALVES		the comments
156 240-0120	Heat control valve, radiator supply, 20 mm diameter	EA	448.00
156 240-0140	Heat control valve, radiator supply, 25 mm diameter	EA	477.00
156 260	PRESSURE REGULATORS		
156 260-3030	Pressure regulator, steam, high capacity, bronze body, stainless steel trim threaded, 20 mm diameter	EA	2,060.0
156 260-3040	Pressure regulator, steam, high capacity, bronze body, stainless steel trim threaded, 25 mm diameter		3,140.0
156 260-3100	Pressure regulator, steam, high capacity, bronze body, stainless steel trim threaded, 50 mm diameter		7,050.0
156 260-3540	Pressure regulator, steam, high capacity, flanged connection, iron body, 861 kPa W.S.P. 100 mm diameter	1	12,600.00
156 270	STEAM CONDENSATE METER		
156 270-0100	Steam condensate meter, 227 kg/hr	EA	15,450.00
156 272	STEAM TRAP		
156 272-0200	Steam trap, cast iron body, threaded inverted bucket 25 mm pipe size (1")	EA	2,400.00
156 600	STRAINERS		12/2/2
156 608	STRAINERS, Y TYPE BRONZE	100	Ne-cu
156 608-0140	Strainers, Y type bronze body screwed, 1034 kPa, 25 mm pipe size	EA	87.0
156 608-0180	Strainers, Y type bronze body screwed, 1034 kPa, 50 mm pipe size (2")	121 18	248.0
156 608-1020	Strainers, Y type bronze body flanged, 1034 kPa, 50 mm pipe size (2")	H H H	345.0
156 608-1030	Strainers, Y type bronze body flanged, 1034 kPa, 63 mm pipe size (2 1/2")		575.0
156 608-1040	Strainers, Y type bronze body flanged, 1034 kPa, 75 mm pipe size (3")	34	650.0
156 608-1050	Strainers, Y type bronze body flanged, 1034 kPa, 100 mm pipe size (4")		1,345.0
156 608-1060	Strainers, Y type bronze body flanged, 1034 kPa, 200 mm pipe size (8")		3,720.0
	STRAINERS, Y TYPE IRON		

CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
	0 Strainers, Y type iron body flanged, 862 kPa, 50 mm pipe size (2")	EA	395.00
	0 Strainers, Y type iron body flanged, 862 kPa, 100 mm pipe size (4")	EA	850.00
157 157 100	AIR CONDITIONING / VENTILATING A. C. & VENT, UNITS	1	
157 125	CENTRAL STATION AIR-HANDLING UNIT		
157 125-130	Control station ALILI ability		Marine Company
mentalistic and a	Central station AHLL obillad water modules are to 6.55	EA	23,000.00
157 125-150	cum/s		45,000.00
157 125-170	Central station AHU, chilled water, modular, capacity at 3.55 m/s face velocity 9.44 cum/s		121,000.00
157 125-1900	Central station AHU, chilled water, modular, capacity at 3.55 m/s face velocity 15.8 cum/s		203,000.00
157 130	COMPUTER ROOM UNITS	V	
157 130-1240	Computer room units, air cooled, includes remote condenser but not	EA	175,000.00
157 150	interconnecting tubing or refrigerant, 35 kW FAN COIL AIR CONDITIONING		175,000.00
157 150-0100	FCU, cabinet mounted, with controls and filter, chilled water, 1.8 kW cooling	EA	3,350.00
157 150-0120	FCU, cabinet mounted, with controls and filter, chilled water, 3.5 kW cooling	\top	4,400.00
157 150-0180	FCU, cabinet mounted, with controls and filter, chilled water, 10.5 kW cooling		8,500.00
157 150-0940	FCU, cabinet mounted, with controls and filter, direct expansion, 5.3 kW cooling		5,300.00
157 160	HEAT PUMPS	_ • _	
157 160-1080	Heat pump, air to air, split system, 26 kW cooling, 10 kW heat @ 255 K	EA	16,750.00
157 160-1120	Heat pump, air to air, split system, not including curbs, pads or ductwork 54 kW cooling, 19 kW heat @ 255 K	EA	43,000.00
154 160-2220	Heat pump, water source to air, single package, 17 kW cooling, 8 kW heat @ 297 K	EA	14,750.00
57 170	PACKAGED TERMINAL AIR CONDITIONER		
157 170-0240	Package terminal air conditioner cabinet, wall sleeve, 3.5 kW cooling 4 kW heat	EA	6,850.00
157 170-0260	Package terminal air conditioner cabinet, wall sleeve, 4.4 kW cooling 4 kW heat	EA	7,000.00
57 180	ROOF TOP AIRCONDITIONERS		
Service of the Control of the Contro	Roof top AC with std. controls, curb, Single zone, 21 kW cooling	EA	16,700.00
A CONTRACTOR OF A STREET WATER OF THE PARTY	Roof top AC with std. controls, curb, Single zone, 35 kW cooling	11 3	26,000.00
	Roof top AC with std. controls, curb, Single zone, 70 kW cooling		50,000.00
	Roof top AC with std. controls, curb, Single zone, 105 kW cooling		111,500.00
	Roof top AC with std. controls, curb, Multi zone, 70 kW cooling		50,000.00
	Roof top AC with std. controls, curb, Multi zone, 140 kW cooling		127,000.00
57 185	SELF-CONTAINED SINGLE PACKAGE		新いる(株) 吾に戦 - m
157 185-0220	Self-contained AC package unit, Air cooled, including remote condenser 17.6 kW	EA	25,750.00
157 185-0240	Self-contained AC package unit, Air cooled, including remote condenser 35 kW (split)		32,800.00
157 185-0260	Self-contained AC package unit, Air cooled, including remote condenser 70 kW		88,000.00
157 185-0280	Self-contained AC package unit, Air cooled, including remote condenser 105 kW		115,000.00

			Laboratory CANA STATES CONT.
CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
157 185-0340	Self-contained AC package unit, Air cooled, including remote condenser 210 kW		198,000.00
157 185-1140	Self-contained AC package unit, Water cooled, including remote condenser 35 kW	•	33,000.0
157 190	WATER CHILLERS		
	Centrifugal, liquid chiller, water cooled, package hermetic, 200 ton	EA	450,000.00
157 190-0200	Centrifugal, liquid chiller, water cooled, package hermetic, 400 ton		915,000.0
157 190-0490	Water chiller, reciprocating, packaged with air cooled condenser, 150 ton cooling		383,500.00
157 190-0500	Water chiller, reciprocating, packaged with air cooled condenser, 175 ton cooling		437,000.00
157 190-0520	Water chiller, reciprocating, packaged with air cooled condenser, 200 ton cooling		468,000.0
157 190-0600	Water chiller, reciprocating, packaged with air cooled condenser, 250 ton cooling		500,000.00
157 190-0640	Water chiller, reciprocating, packaged with air cooled condenser, 300 ton cooling		565,000.00
157 190-0660	Water chiller, reciprocating, packaged with air cooled condenser, 350 ton cooling		635,000.00
157 190-0700	Water chiller, reciprocating, packaged with air cooled condenser, 400 ton cooling		725,000.0
157 190-1200	Water chiller, reciprocating, water cooled, multi compressor, semi-hermitic tower not included 140 ton cooling	4,1	370,000.0
157 190-1580	Water chiller, reciprocating, water cooled, dual compressor, direct drive, semi- hermitic tower not included 150 ton cooling		383,500.0
157 190-3100	Packaged chiller, with remote air cooled condenser 100 ton	*	285,000.0
157 190-3150	Packaged chiller, with remote air cooled condenser 140 ton	EA	385,000.0
157 197	WINDOW UNIT AIR CONDITIONER		eli-al-la-Hu
157 197-2000	Window air condition unit thru the wall, 1.5 ton	EA	1,350.0
157 197-2100	Window air condition unit thru the wall, 2 ton	+	1,500.0
157 200	SYSTEM COMPONENTS		
157 225	CONDENSERS		
157 225-0800	Condenser, air cooled, belt drive, propeller fan, 48 ton	EA	86,800.00
157 225-0280	Condenser, air cooled, belt drive, propeller fan, 60 ton		107,500.00
157 225-0550	Condenser, air cooled, belt drive, propeller fan, 235 ton		397,000.00
157 225-0800	Condenser, air cooled, belt drive, propeller fan, 470 ton		763,000.00
157 225-1760	Condenser, air cooled, direct drive, propeller fan, 40 ton	1.	69,000.00
157 225-1900	Condenser, air cooled, direct drive, propeller fan, 105 ton	+	184,000.00
157 240	COOLING TOWERS		
157 240-0250	Cooling tower, package unit, galv. steel, draw thru, single flow, belt drive 125 ton	EA	95,398.00
157 240-1500	Cooling tower, package unit, galv. steel, induced air, double flow, gear drive, 150 ton	A DOMESTIC	114,477.0
157 240-2000	Cooling tower, package unit, galv. steel, induced air, double flow, gear drive, 300 ton	1 2 4 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	228,955.00
157 240-6120	Cooling tower, package unit, stainless steel, draw thru, single flow, belt drive, 110 ton		83,950.00
157 250	DUCTWORK		Mary 12
	Duct aluminum alloy	KG	38.00
	Duct galvanized steel	37 198	27.00
137 230-0300			
	Duct stainless steel type 304	A	52.00

CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
	Round duct, flexible, coated fiberglass 250 mm diameter (10")		41.0
Charles and Control of the Control o	Round duct, flexible, coated fiberglass 300 mm diameter (12")	*	47.0
157 290	FANS		
157 290-0050	Fan, axial flow, compact, low sound, 64 mm S.P., (3500 CFM), 1.8 cum/s, 5 HP	EA	3,250.00
157 290-0060	Fan, axial flow, compact, low sound, 64 mm S.P., (3500 CFM), 1.8 cum/s, 3 HP, with vibration isolators and motor cover.		3,375.00
157 290-0100	Fan, axial flow, compact, low sound, 64 mm S.P., (10500 CFM), 5 cum/s, 7.5 HP		9,760.00
157 290-0110	Fan, axial flow, compact, low sound, 64 mm S.P., (10500 CFM), 5 cum/s, 10 HP, with vibration isolators and motor cover.		9,175.00
157 290-0120	Fan, axial flow, compact, low sound, 64 mm S.P., (15600 CFM), 7.3 cum/s, 10 HP		9,550.00
157 290-0130	Fan, axial flow, compact, low sound, 64 mm S.P., (15600 CFM), 7.3 cum/s, 25 HP		9,680.00
157 290-0260	Fan, in-line centrifugal, supply/exhaust booster, aluminum wheel/hub, disconnect switch, 6 mm S.P., (1380 CFM), 0.651 cum/s, 300 mm dia. connection		2,690.00
157 290-0300	Fan, in-line centrifugal, supply/exhaust booster, aluminum wheel/hub, disconnect switch, 6 mm S.P., (2560 CFM), 1.208 cum/s, 457 mm dia. connection		3,575.00
157 290-0320	Fan, in-line centrifugal, supply/exhaust booster, aluminum wheel/hub, disconnect switch, 6 mm S.P., (3480 CFM), 1.643 cum/s, 500 mm dia. connection		3,550.00
157 290-2580	Ceiling fan, right angle, extra quiet, 3 mm S.P. (885 CFM), 0.418 cum/s	EA	1,770.00
157 290-2620			3,575.00
157 290-3020	Ceiling fan, paddle blade air circulator, 3 speed switch, 1067 mm, (5000 CFM), 2.36 cum/s high, (3000 CFM), 1.416 cum/s low		550.00
157 290-4640	Ventilator, roof type, corrosive fume resistant, plastic, centrifugal, V belt drive, motor, 6 mm S.P., (895 CFM - 1/3 HP), 0.422 cum/s, 248 W		1,595.00
157 290-4680	Ventilator, roof type, corrosive fume resistant, plastic, centrifugal, V belt drive, motor, 6 mm S.P., (2240 CFM - 1 HP), 1.057 cum/s, 746 W		2,300.00
157 290-4720	Ventilator, roof type, corrosive fume resistant, plastic, centrifugal, V belt drive, motor, 6 mm S.P., (11760 CFM - 5 HP), 5.549 cum/s, 3.75 kW		5,225.00
157 290-6140	Fan, propeller exhaust, wall shutter, 6 mm S.P., direct drive two speed, (1000 CFM, 1/8 HP), 0.472 cum/s, 93 W		1,435.00
157 290-6670	Fan, residential, bath exhaust, grille, back draft damper (110 CFM), 0.052 cum/s		1,690.00
157 290-7160	Roof exhauster, centrifugal, aluminum housing, 300 mm galvanized curb, bird screen, back draft damper, 6 mm S.P. direct drive (1450 CFM), 0.684 cum/s, 0.109 sqm damper		1,565.00
157 290-7180	Roof exhauster, centrifugal, aluminum housing, 300 mm galvanized curb, bird screen, back draft damper, 6 mm S.P. direct drive (2050 CFM), 0.968 cum/s, 0.165 sqm damper		1,960.00
	Roof exhauster, centrifugal, aluminum housing. 305 mm galvanized curb, bird screen, back draft damper, 6 mm S.P. V-belt drive (8525 CFM), 4.024 cum/s, 0.506 sqm damper	.	4,870.00
57 400	ACCESSORIES	10	1/
57 401	AIR FILTERS	700	
157 401-1190	Chemical media filter, industrial air fume & odor scrubber unit with pump & motor corrosion resistant, PVC construction, single pack, horizontal 12000 CFM	EA	123,764.00
157 401-1370	Chemical media filter, industrial air fume & odor scrubber unit with pump & motor corrosion resistant, PVC construction, double pack, horizontal 12000 CFM		137 561.00
157 401-1410	Chemical media filter, industrial air fume & odor scrubber unit with pump & motor corrosion resistant, PVC construction, double pack, horizontal 30000 CFM	-	342,523.00

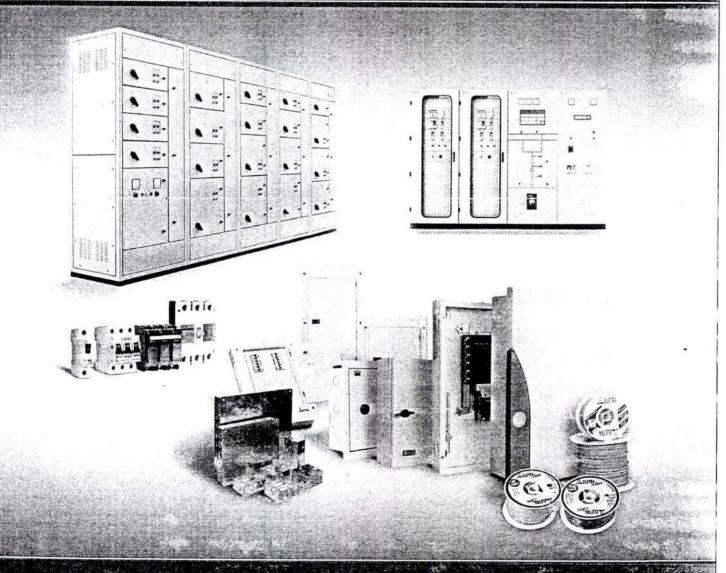
CSI	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
CODE			ONIT (Sh)
157 401-1600	Chemical media filter, industrial air fume & odor scrubber unit with pump & motor corrosion resistant, PVC construction, single pack, horizontal 24000 CFM		247,529.00
157 401-2150	Air filter, Electronic air cleaner, self-contained, 0.236 cum/s, 1000 CFM		69,900.00
157 401-2250	Air filter, Electronic air cleaner, self-contained, 0.566 cum/s, 2000 CFM	+	94,000.00
157 450	DIFFUSERS; Aluminum, w/ opposed blade damper & p	lenum b	ox,
157 450-0500	Linear Diffuser, ceiling, with perforated plenum box, one slot (3/4").	LM	425.00
157 450-0520	Linear Diffuser, ceiling, with perforated plenum box, two slots (3/4").		585.00
157 450-0540	Linear Diffuser, ceiling, with perforated plenum box, three slots (3/4").		750.00
157 450-0560	Linear Diffuser, ceiling, with perforated plenum box, four slots (3/4").		915.00
157 450-0600	Linear Diffuser, ceiling, with perforated plenum box, five slots (3/4").	 	1,080.00
157 450-1000	Diffuser, rectangular, 1 to 4 way blow, 150 mm x 300 mm	EA	265.00
157 450-1100	Diffuser, rectangular, 1 to 4 way blow, 300 mm x 600 mm		385.00
157 450-1160	Diffuser, rectangular, 1 to 4 way blow, 450 mm x 600 mm		415.00
157 450-1500	Diffuser, round, butterfly damper, 150 mm diameter (6")		250.00
157 450-1560	Diffuser, round, butterfly damper, 300 mm diameter (12")		370.00
157 450-1570	Diffuser, Square, ceiling, 300 mm X 300 mm.		325.00
157 450-1580	Diffuser, Square, ceiling, 450 mm X 450 mm.		465.00
157 450-1590	Diffuser,Square , ceiling, 600 mm X 600 mm .		650.00
57 460	GRILLES;	· · ·	
157 460-1080	Grille, aluminum, for return air, 200 mm x 500 mm	EA	145.00
157 460-1280	Grille, aluminum, for return air, 250 mm x 500 mm		175.00
157 460-1080	Grille, aluminum, for supply air, with damper & plen. box, 200 mm x 500 mm		315.00
157 460-1280	Grille, aluminum, for supply air, with damper & plen. box, 250 mm x 500 mm	1	360.00
57 470	REGISTERS		
157 470-1020	Register, for supply air, opposing blade damper, anodized aluminum one or two way deflection, adj. curved face bars, w/ plen.box, 150 mm x 500 mm	EA	380.00
157 470-1030	Register, for supply air, opposing blade damper, anodized aluminum one or two way deflection, adj. curved face bars, w/ plen.box, 200 mm x 500 mm		460.00
157 470-1240	Register, for return air, anodized aluminum 150 mm x 500 mm		175.00
157 470-1350	Register, for return air, anodized aluminum 200 mm x 500 mm		215.00
57 480	DUCT ACCESSORIES	·	
157 480-0050	Duct accessories, air extractors, 300 mm x 100 mm	EA	170.00
157 480-0200	Duct accessories, air extractors, 508 mm x 200 mm		215.00
157 480-0280	Duct accessories, access door, insulated, 300 mm x 300 mm		95.00
157 480-3240	Duct accessories, fire damper, curtain type, vertical, 406 mm x 356 mm		220.00
157 480-3400	Duct accessories, fire damper, curtain type, vertical, 610 mm x 508 mm	W	305.00
157 480-6000	Duct accessories, multi-blade dampers, opposed blade, 300 mm x 300 mm		182.00
	Duct accessories, multi-blade dampers, opposed blade, 610 mm x 610 mm		308.00
	Duct accessories, multi-blade dampers, opposed blade, 1219 mm x 1219 mm		555.00
	Duct accessories, splitter damper assembly, self-locking, 1830 mm rod		165.00
	Duct accessories, multi-blade dampers, parallel blade, 610 mm x 400 mm		245.00
STATE OF THE PARTY		_	
157 482 157 482-2020	LOUVERS Sand trap louvers, aluminum, extruded, with screen, mill finish, w/ 1" thick. aluminum filter, size: 500 mm X 500 mm.	EA	43

DIVISIO	N 15: MECHANICAL		Con No.
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT (SR)
157 482-3000	Sand trap louvers, aluminum, extruded, with screen, mill finish, w/ 1" thick. aluminum filter, size: 750 mm X 750 mm.	EA	640.00
157 600	MISCELLANEOUS		
157 610	DUST COLLECTION SYSTEM		
157 610-0220	Dust collection system, commercial/industrial, central vacuum units included stand, filters and motorized shaker, 3500 RPM, 15 HP, 2500 CFM to 5000 CFM	EA	68,500.00
157 610-0230	Dust collection system, commercial/industrial, central vacuum units included stand, filters and motorized shaker, 3600 RPM, 10 HP, 2000 CFM to 3600 CFM	EA	49,750.00
157 610-1160	Dust collection system, vacuum tubing, galvanized 150 mm OD, 14 ga.	LM	142.00
157 610-1190	Dust collection system, vacuum tubing, galvanized 300 mm OD, 12 ga.	LM	400.00
157 610-1980	Vacuum, hose, flexible wire reinforced rubber 150 mm dia.	LM	75.00
157 610-2170	Vacuum tubing 90/45 degree elbow size 150 mm dia.	EA	245.00
157 610-3530	Vacuum tubing compression coupling, galvanized, neoprene gasket size 152 mm dia.	EA	82.00
157 610-3850	Vacuum tubing air gate valve, galvanized, neoprene gasket size 152 mm dia.	EA	590.00

Division 16 Electrical



- PACKAGE SUBSTATIONS
- . RING MAIN UNITS
- . MAIN DISTRIBUTION BOARD
- . SERVICE & TELEPHONE BOXES
- LOAD CENTERS
- SWITCH & JUNCTION BOXES
- WIRES & CABLES





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Tollfree: 800 124 0026

			COCT DED
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT
160	RACEWAYS		
60 100	CABLE TRAYS		
160 105	CABLE TRAY LADDER:		
160 105-0200	Cable tray ladder,galv.steel, 100 mm deep,100 mm rung spacing, 300 mm wide	LM	80.00
160 105-0600	Cable tray ladder,galv.steel, 100 mm deep, 100 mm rung spacing, 600 mm wide	2301	97.0
160 110	CABLE TRAY SOLID:		
160 110-0160	Cable tray solid, galv.steel, 50 mm deep 150 mm wide		27.0
160 110-0170	Cable tray solid, galv.steel, 100 mm deep 150 mm wide	LM	37.0 113.0
160 110-0180	Cable tray solid, galv.steel, 110 mm deep 600 mm wide	_	81.0
160 110-0200	Cable tray solid, galv.steel, 150 mm deep, 300 mm wide		120.0
	Cable tray solid, galv.steel, 150 mm deep, 600 mm wide		120.0
160 115	CABLE TRAY ACCESSORIES:	EA	T 68.0
	Cable tray,ladder,elbow 300 mm wide		83.0
	Cable tray,ladder,elbow 600 mm wide		23.0
	Cable tray,solid,elbow 150 mm wide Cable tray,solid,elbow 300 mm wide		69.0
	Cable tray, ladder, elbow 600 mm wide	+	123.0
160 150	WIREWAY:		
	Wireway screw cover with fittings and supports, 64 mm x 64 mm	EA	58.0
160 150-0200	Wireway screw cover with littings and supports, 04 mm x 04 mm Wireway screw cover with fittings and supports, 100 mm x 100 mm		86.0
160 200	CONDUITS		
160 205	CONDUIT:		
100 205	19 - Hard Harmites are annual and		
	O 1 1 At an interest Of many diameter (1")	I IM	I 16.3
160 205-0700	Conduit Aluminium, 25 mm diameter (1")	LM	3 Julie Lan
160 205-1770	Conduit Galv. Rigid Steel, 20 mm diameter (3/4")	LM	10.6
160 205-1770 160 205-1800	Conduit Galv. Rigid Steel, 20 mm diameter (3/4") Conduit Galv. Rigid Steel, 25 mm diameter (1")	LM	10.6
160 205-1770 160 205-1800 160 205-1850	Conduit Galv. Rigid Steel, 20 mm diameter (3/4") Conduit Galv. Rigid Steel, 25 mm diameter (1") Conduit Galv. Rigid Steel, 38 mm diameter (1-1/2")	LM	10.6 14.9 24.2
160 205-1770 160 205-1800 160 205-1850 160 205-1870	Conduit Galv. Rigid Steel, 20 mm diameter (3/4") Conduit Galv. Rigid Steel, 25 mm diameter (1") Conduit Galv. Rigid Steel, 38 mm diameter (1-1/2") Conduit Galv. Rigid Steel, 50 mm diameter (2")	LM	10.6 14.9 24.2 32.4
160 205-1770 160 205-1800 160 205-1850 160 205-1870 160 205-1970	Conduit Galv. Rigid Steel, 20 mm diameter (3/4") Conduit Galv. Rigid Steel, 25 mm diameter (1") Conduit Galv. Rigid Steel, 38 mm diameter (1-1/2") Conduit Galv. Rigid Steel, 50 mm diameter (2") Conduit Galv. Rigid Steel, 100 mm diameter (4")	LM	10.6 14.9 24.2 32.4 93.7
160 205-1770 160 205-1800 160 205-1850 160 205-1870 160 205-1970 160 205-2500	Conduit Galv. Rigid Steel, 20 mm diameter (3/4") Conduit Galv. Rigid Steel, 25 mm diameter (1") Conduit Galv. Rigid Steel, 38 mm diameter (1-1/2") Conduit Galv. Rigid Steel, 50 mm diameter (2") Conduit Galv. Rigid Steel, 100 mm diameter (4") Conduit Intermediate Steel (IMC), 15 mm diameter (1/2")	LM	10.6 14.9 24.2 32.4 93.7 2.5
160 205-1770 160 205-1800 160 205-1850 160 205-1870 160 205-1970 160 205-2500 160 205-2550	Conduit Galv. Rigid Steel, 20 mm diameter (3/4") Conduit Galv. Rigid Steel, 25 mm diameter (1") Conduit Galv. Rigid Steel, 38 mm diameter (1-1/2") Conduit Galv. Rigid Steel, 50 mm diameter (2") Conduit Galv. Rigid Steel, 100 mm diameter (4") Conduit Intermediate Steel (IMC), 15 mm diameter (1/2") Conduit Intermediate Steel (IMC), 25 mm diameter (1")	LM	10.6 14.9 24.2 32.4 93.7 2.5 3.6 4.5
160 205-1770 160 205-1800 160 205-1850 160 205-1870 160 205-1970 160 205-2500 160 205-2550 160 205-2630 160 205-5000	Conduit Galv. Rigid Steel, 20 mm diameter (3/4") Conduit Galv. Rigid Steel, 25 mm diameter (1") Conduit Galv. Rigid Steel, 38 mm diameter (1-1/2") Conduit Galv. Rigid Steel, 50 mm diameter (2") Conduit Galv. Rigid Steel, 100 mm diameter (4") Conduit Intermediate Steel (IMC), 15 mm diameter (1/2") Conduit Intermediate Steel (IMC), 25 mm diameter (1") Conduit Intermediate Steel (IMC), 50 mm diameter (2") Conduit Intermediate Steel (IMC), 50 mm diameter (2")	LM	10.6 14.9 24.2 32.4 93.7 2.5 3.6 4.5
160 205-1770 160 205-1800 160 205-1850 160 205-1870 160 205-1970 160 205-2500 160 205-2550 160 205-2630 160 205-5000	Conduit Galv. Rigid Steel, 20 mm diameter (3/4") Conduit Galv. Rigid Steel, 25 mm diameter (1") Conduit Galv. Rigid Steel, 38 mm diameter (1-1/2") Conduit Galv. Rigid Steel, 50 mm diameter (2") Conduit Galv. Rigid Steel, 100 mm diameter (4") Conduit Intermediate Steel (IMC), 15 mm diameter (1/2") Conduit Intermediate Steel (IMC), 25 mm diameter (1") Conduit Intermediate Steel (IMC), 50 mm diameter (2") Conduit Electric Metalic Tubing (EMT), 15 mm diameter (1/2") Conduit Electric Metallic Tubing (EMT), 20 mm diameter (3/4")	LM	10.6 14.9 24.2 32.4 93.7 2.5 3.6 4.5 6.7
160 205-1770 160 205-1800 160 205-1850 160 205-1870 160 205-1970 160 205-2500 160 205-2550 160 205-2630 160 205-5000 160 205-5000	Conduit Galv. Rigid Steel, 20 mm diameter (3/4") Conduit Galv. Rigid Steel, 25 mm diameter (1") Conduit Galv. Rigid Steel, 38 mm diameter (1-1/2") Conduit Galv. Rigid Steel, 50 mm diameter (2") Conduit Galv. Rigid Steel, 100 mm diameter (4") Conduit Intermediate Steel (IMC), 15 mm diameter (1/2") Conduit Intermediate Steel (IMC), 25 mm diameter (1") Conduit Intermediate Steel (IMC), 50 mm diameter (2") Conduit Electric Metalic Tubing (EMT), 15 mm diameter (1/2") Conduit Electric Metallic Tubing (EMT), 20 mm diameter (3/4") Conduit Electric Metallic Tubing (EMT), 25 mm diameter (1")	LM	10.6 14.9 24.2 32.4 93.7 2.5 3.6 4.5 4.5 9.7
160 205-1770 160 205-1800 160 205-1850 160 205-1870 160 205-1970 160 205-2500 160 205-2550 160 205-2630 160 205-5000 160 205-5000 160 205-5000	Conduit Galv. Rigid Steel, 20 mm diameter (3/4") Conduit Galv. Rigid Steel, 25 mm diameter (1") Conduit Galv. Rigid Steel, 38 mm diameter (1-1/2") Conduit Galv. Rigid Steel, 50 mm diameter (2") Conduit Galv. Rigid Steel, 100 mm diameter (4") Conduit Intermediate Steel (IMC), 15 mm diameter (1/2") Conduit Intermediate Steel (IMC), 25 mm diameter (1") Conduit Intermediate Steel (IMC), 50 mm diameter (2") Conduit Electric Metalic Tubing (EMT), 15 mm diameter (1/2") Conduit Electric Metallic Tubing (EMT), 20 mm diameter (3/4") Conduit Electric Metallic Tubing (EMT), 25 mm diameter (1") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (2")	LM	10.6 14.9 24.2 32.4 93.7 2.5 3.6 4.5 4.5 6.7 9.7
160 205-1770 160 205-1800 160 205-1850 160 205-1870 160 205-1970 160 205-2500 160 205-2550 160 205-2630 160 205-5000 160 205-5000 160 205-5000 160 205-5000	Conduit Galv. Rigid Steel, 20 mm diameter (3/4") Conduit Galv. Rigid Steel, 25 mm diameter (1") Conduit Galv. Rigid Steel, 38 mm diameter (1-1/2") Conduit Galv. Rigid Steel, 50 mm diameter (2") Conduit Galv. Rigid Steel, 100 mm diameter (4") Conduit Intermediate Steel (IMC), 15 mm diameter (1/2") Conduit Intermediate Steel (IMC), 25 mm diameter (1") Conduit Intermediate Steel (IMC), 50 mm diameter (2") Conduit Electric Metalic Tubing (EMT), 15 mm diameter (1/2") Conduit Electric Metallic Tubing (EMT), 20 mm diameter (3/4") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (1") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (2") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (2")	LM	10.6 14.9 24.2 32.4 93.7 2.5 3.6 4.5 4.5 6.7 9.7 22.3
160 205-1770 160 205-1800 160 205-1850 160 205-1870 160 205-1970 160 205-2500 160 205-2550 160 205-2630 160 205-5000 160 205-5000 160 205-5000 160 205-5000 160 205-6000	Conduit Galv. Rigid Steel, 20 mm diameter (3/4") Conduit Galv. Rigid Steel, 25 mm diameter (1") Conduit Galv. Rigid Steel, 38 mm diameter (1-1/2") Conduit Galv. Rigid Steel, 50 mm diameter (2") Conduit Galv. Rigid Steel, 100 mm diameter (4") Conduit Intermediate Steel (IMC), 15 mm diameter (1/2") Conduit Intermediate Steel (IMC), 25 mm diameter (1") Conduit Intermediate Steel (IMC), 50 mm diameter (2") Conduit Electric Metalic Tubing (EMT), 15 mm diameter (1/2") Conduit Electric Metallic Tubing (EMT), 20 mm diameter (3/4") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (1") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (2") Conduit PVC Sch 40; 20x1.8mm diameter (3/4") Conduit PVC Sch 40; 32x1.8mm diameter (1-1/4")	LM	10.6 14.9 24.2 32.4 93.7 2.5 3.6 4.5 4.5 6.7 9.7 22.3 2.6
160 205-1770 160 205-1800 160 205-1850 160 205-1870 160 205-1970 160 205-2500 160 205-2550 160 205-2630 160 205-5000 160 205-5000 160 205-5100 160 205-6100 160 205-6100	Conduit Galv. Rigid Steel, 20 mm diameter (3/4") Conduit Galv. Rigid Steel, 25 mm diameter (1") Conduit Galv. Rigid Steel, 38 mm diameter (1-1/2") Conduit Galv. Rigid Steel, 50 mm diameter (2") Conduit Galv. Rigid Steel, 100 mm diameter (4") Conduit Intermediate Steel (IMC), 15 mm diameter (1/2") Conduit Intermediate Steel (IMC), 25 mm diameter (1") Conduit Intermediate Steel (IMC), 50 mm diameter (2") Conduit Electric Metalic Tubing (EMT), 15 mm diameter (1/2") Conduit Electric Metallic Tubing (EMT), 20 mm diameter (3/4") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (1") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (2") Conduit PVC Sch 40; 20x1.8mm diameter (3/4") Conduit PVC Sch 40; 32x1.8mm diameter (1-1/4") Conduit PVC Sch 40; 40x1.9mm diameter (1-1/2")	LM	10.6 14.9 24.2 32.4 93.7 2.5 3.6 4.5 4.5 6.7 9.7 22.3 2.6 5.3
160 205-1770 160 205-1800 160 205-1850 160 205-1870 160 205-1970 160 205-2500 160 205-2550 160 205-2630 160 205-5000 160 205-5000 160 205-5000 160 205-6000 160 205-6000 160 205-6200	Conduit Galv. Rigid Steel, 20 mm diameter (3/4") Conduit Galv. Rigid Steel, 25 mm diameter (1") Conduit Galv. Rigid Steel, 38 mm diameter (1-1/2") Conduit Galv. Rigid Steel, 50 mm diameter (2") Conduit Galv. Rigid Steel, 100 mm diameter (4") Conduit Intermediate Steel (IMC), 15 mm diameter (1/2") Conduit Intermediate Steel (IMC), 25 mm diameter (1") Conduit Intermediate Steel (IMC), 50 mm diameter (2") Conduit Electric Metalic Tubing (EMT), 15 mm diameter (1/2") Conduit Electric Metallic Tubing (EMT), 20 mm diameter (3/4") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (1") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (2") Conduit PVC Sch 40; 20x1.8mm diameter (3/4") Conduit PVC Sch 40; 40x1.9mm diameter (1-1/4") Conduit PVC Sch 40; 50x1.8mm diameter (1-1/2") Conduit PVC Sch 40; 50x1.8mm diameter (2")	LM	10.6 14.9 24.2 32.4 93.7 2.5 3.6 4.5 4.5 6.7 9.7 22.3 2.6 5.3
160 205-1770 160 205-1800 160 205-1850 160 205-1870 160 205-1970 160 205-2500 160 205-2550 160 205-2630 160 205-5200 160 205-5200 160 205-5100 160 205-6100 160 205-6200 160 205-6300 160 205-6300	Conduit Galv. Rigid Steel, 20 mm diameter (3/4") Conduit Galv. Rigid Steel, 25 mm diameter (1") Conduit Galv. Rigid Steel, 38 mm diameter (1-1/2") Conduit Galv. Rigid Steel, 50 mm diameter (2") Conduit Galv. Rigid Steel, 100 mm diameter (4") Conduit Intermediate Steel (IMC), 15 mm diameter (1/2") Conduit Intermediate Steel (IMC), 25 mm diameter (1") Conduit Intermediate Steel (IMC), 50 mm diameter (2") Conduit Electric Metalic Tubing (EMT), 15 mm diameter (1/2") Conduit Electric Metallic Tubing (EMT), 20 mm diameter (3/4") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (1") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (2") Conduit PVC Sch 40; 20x1.8mm diameter (3/4") Conduit PVC Sch 40; 32x1.8mm diameter (1-1/4") Conduit PVC Sch 40; 50x1.8mm diameter (2") Conduit PVC Sch 40; 50x1.8mm diameter (2") Conduit PVC Sch 40; 50x1.8mm diameter (2")		10.6 14.9 24.2 32.4 93.7 2.5 3.6 4.5 4.5 6.7 9.7 22.3 2.6 5.3 6.3
160 205-1770 160 205-1800 160 205-1850 160 205-1870 160 205-1970 160 205-2500 160 205-2550 160 205-2630 160 205-5000 160 205-5000 160 205-5000 160 205-6000 160 205-6000 160 205-6200 160 205-6200 160 205-6300 160 205-6300	Conduit Galv. Rigid Steel, 20 mm diameter (3/4") Conduit Galv. Rigid Steel, 25 mm diameter (1") Conduit Galv. Rigid Steel, 38 mm diameter (1-1/2") Conduit Galv. Rigid Steel, 50 mm diameter (2") Conduit Galv. Rigid Steel, 100 mm diameter (4") Conduit Intermediate Steel (IMC), 15 mm diameter (1/2") Conduit Intermediate Steel (IMC), 25 mm diameter (1") Conduit Intermediate Steel (IMC), 50 mm diameter (2") Conduit Electric Metalic Tubing (EMT), 15 mm diameter (1/2") Conduit Electric Metallic Tubing (EMT), 20 mm diameter (3/4") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (1") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (2") Conduit PVC Sch 40; 20x1.8mm diameter (3/4") Conduit PVC Sch 40; 32x1.8mm diameter (1-1/4") Conduit PVC Sch 40; 50x1.8mm diameter (2") Conduit PVC Sch 40; 150x11.9mm diameter (6")		10.6 14.9 24.2 32.4 93.7 2.5 3.6 4.5 4.5 6.7 9.7 22.3 2.6 5.3 6.3 8.5 12.6
160 205-1770 160 205-1800 160 205-1850 160 205-1870 160 205-1970 160 205-2500 160 205-2550 160 205-2630 160 205-5000 160 205-5000 160 205-6000 160 205-6100 160 205-6200 160 205-6300 160 205-6300 160 205-6400 160 205-6400	Conduit Galv. Rigid Steel, 20 mm diameter (3/4") Conduit Galv. Rigid Steel, 25 mm diameter (1") Conduit Galv. Rigid Steel, 38 mm diameter (1-1/2") Conduit Galv. Rigid Steel, 50 mm diameter (2") Conduit Galv. Rigid Steel, 100 mm diameter (4") Conduit Intermediate Steel (IMC), 15 mm diameter (1/2") Conduit Intermediate Steel (IMC), 25 mm diameter (1") Conduit Intermediate Steel (IMC), 50 mm diameter (2") Conduit Electric Metalic Tubing (EMT), 15 mm diameter (1/2") Conduit Electric Metallic Tubing (EMT), 20 mm diameter (3/4") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (1") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (2") Conduit PVC Sch 40; 20x1.8mm diameter (3/4") Conduit PVC Sch 40; 32x1.8mm diameter (1-1/4") Conduit PVC Sch 40; 50x1.8mm diameter (2") Conduit PVC Sch 40; 50x1.8mm diameter (2") Conduit PVC Sch 40; 50x1.8mm diameter (2") Conduit PVC Sch 40; 150x11.9mm diameter (6") Conduit PVC Sch 40; 150x11.9mm diameter (6")	ROLL	10.6 14.9 24.2 32.4 93.7 2.5 3.6 4.5 4.5 6.7 9.7 22.3 2.6 5.3 6.3 8.5 12.6 42.1
160 205-1770 160 205-1800 160 205-1850 160 205-1870 160 205-1970 160 205-2500 160 205-2500 160 205-2630 160 205-5000 160 205-5000 160 205-6100 160 205-6200 160 205-6300 160 205-6400 160 205-6400 160 205-6500 160 205-6500 160 205-6500 160 205-6500 160 205-6500 160 205-7000	Conduit Galv. Rigid Steel, 20 mm diameter (3/4") Conduit Galv. Rigid Steel, 25 mm diameter (1") Conduit Galv. Rigid Steel, 38 mm diameter (1-1/2") Conduit Galv. Rigid Steel, 50 mm diameter (2") Conduit Galv. Rigid Steel, 100 mm diameter (4") Conduit Intermediate Steel (IMC), 15 mm diameter (1/2") Conduit Intermediate Steel (IMC), 25 mm diameter (1") Conduit Intermediate Steel (IMC), 50 mm diameter (2") Conduit Electric Metalic Tubing (EMT), 15 mm diameter (1/2") Conduit Electric Metalic Tubing (EMT), 20 mm diameter (3/4") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (1") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (2") Conduit PVC Sch 40; 20x1.8mm diameter (3/4") Conduit PVC Sch 40; 32x1.8mm diameter (1-1/4") Conduit PVC Sch 40; 40x1.9mm diameter (1-1/2") Conduit PVC Sch 40; 50x1.8mm diameter (2") Conduit PVC Sch 40; 150x11.9mm diameter (6") Conduit PVC Sch 40; 150x11.9mm diameter (6") Conduit Flexible, steel, size 15 mm (100 ft/roll)		10.6 14.9 24.2 32.4 93.7 2.5 3.6 4.5 4.5 6.7 9.7 22.3 2.6 5.3 6.3 8.5 12.6 42.1
160 205-1770 160 205-1800 160 205-1850 160 205-1870 160 205-1970 160 205-2500 160 205-2550 160 205-2630 160 205-5200 160 205-5200 160 205-5000 160 205-6000 160 205-6100 160 205-6200 160 205-6300 160 205-6400 160 205-6400 160 205-6500 160 205-67000 160 205-7000	Conduit Galv. Rigid Steel, 20 mm diameter (3/4") Conduit Galv. Rigid Steel, 25 mm diameter (1") Conduit Galv. Rigid Steel, 38 mm diameter (1-1/2") Conduit Galv. Rigid Steel, 50 mm diameter (2") Conduit Galv. Rigid Steel, 100 mm diameter (4") Conduit Intermediate Steel (IMC), 15 mm diameter (1/2") Conduit Intermediate Steel (IMC), 25 mm diameter (1") Conduit Intermediate Steel (IMC), 50 mm diameter (2") Conduit Electric Metalic Tubing (EMT), 15 mm diameter (1/2") Conduit Electric Metallic Tubing (EMT), 20 mm diameter (3/4") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (1") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (2") Conduit PVC Sch 40; 20x1.8mm diameter (3/4") Conduit PVC Sch 40; 32x1.8mm diameter (1-1/4") Conduit PVC Sch 40; 40x1.9mm diameter (1-1/2") Conduit PVC Sch 40; 50x1.8mm diameter (2") Conduit PVC Sch 40; 150x11.9mm diameter (6") Conduit PVC Sch 40; 150x11.9mm diameter (6") Conduit Flexible, steel, size 15 mm (100 ft/roll) Conduit Flexible, steel, size 38 mm (25 ft/roll)		10.6 14.9 24.2 32.4 93.7 2.5 3.6 4.5 4.5 6.7 9.7 22.3 2.6 5.3 6.3 8.5 12.6 42.1 108.7 136.5
160 205-1770 160 205-1800 160 205-1850 160 205-1870 160 205-1970 160 205-2500 160 205-2500 160 205-5000 160 205-5000 160 205-5000 160 205-6100 160 205-6200 160 205-6300 160 205-6400 160 205-6500 160 205-6500 160 205-7500	Conduit Galv. Rigid Steel, 20 mm diameter (3/4") Conduit Galv. Rigid Steel, 25 mm diameter (1") Conduit Galv. Rigid Steel, 38 mm diameter (1-1/2") Conduit Galv. Rigid Steel, 50 mm diameter (2") Conduit Galv. Rigid Steel, 100 mm diameter (4") Conduit Intermediate Steel (IMC), 15 mm diameter (1/2") Conduit Intermediate Steel (IMC), 25 mm diameter (1") Conduit Intermediate Steel (IMC), 50 mm diameter (2") Conduit Electric Metalic Tubing (EMT), 15 mm diameter (1/2") Conduit Electric Metalic Tubing (EMT), 20 mm diameter (3/4") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (1") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (2") Conduit PVC Sch 40; 20x1.8mm diameter (3/4") Conduit PVC Sch 40; 32x1.8mm diameter (1-1/4") Conduit PVC Sch 40; 30x1.8mm diameter (1-1/2") Conduit PVC Sch 40; 50x1.8mm diameter (2") Conduit PVC Sch 40; 150x11.9mm diameter (2") Conduit PVC Sch 40; 150x11.9mm diameter (6") Conduit Flexible, steel, size 15 mm (100 ft/Roll) Conduit Flexible, steel, size 38 mm (25 ft/roll) Conduit Flexible, steel, size 38 mm (25 ft/roll)		10.6 14.9 24.2 32.4 93.7 2.5 3.6 4.5 4.5 6.7 9.7 22.3 2.6 5.3 6.3 8.5 12.6 42.1 108.7 136.5
160 205-1770 160 205-1800 160 205-1850 160 205-1870 160 205-1870 160 205-2500 160 205-2500 160 205-5000 160 205-5000 160 205-5000 160 205-6100 160 205-6200 160 205-6300 160 205-6500 160 205-6500 160 205-7000 160 205-7000	Conduit Galv. Rigid Steel, 20 mm diameter (3/4") Conduit Galv. Rigid Steel, 25 mm diameter (1") Conduit Galv. Rigid Steel, 38 mm diameter (1-1/2") Conduit Galv. Rigid Steel, 50 mm diameter (2") Conduit Galv. Rigid Steel, 100 mm diameter (4") Conduit Intermediate Steel (IMC), 15 mm diameter (1/2") Conduit Intermediate Steel (IMC), 25 mm diameter (1") Conduit Intermediate Steel (IMC), 50 mm diameter (2") Conduit Electric Metalic Tubing (EMT), 15 mm diameter (1/2") Conduit Electric Metallic Tubing (EMT), 20 mm diameter (3/4") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (1") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (2") Conduit PVC Sch 40; 20x1.8mm diameter (3/4") Conduit PVC Sch 40; 32x1.8mm diameter (1-1/4") Conduit PVC Sch 40; 40x1.9mm diameter (1-1/2") Conduit PVC Sch 40; 50x1.8mm diameter (2") Conduit PVC Sch 40; 150x11.9mm diameter (6") Conduit PVC Sch 40; 150x11.9mm diameter (6") Conduit Flexible, steel, size 15 mm (100 ft/roll) Conduit Flexible, steel, size 38 mm (25 ft/roll)		10.6 14.9 24.2 32.4 93.7 2.5 3.6 4.5 4.5 6.7 9.7 22.3 2.6 5.3 6.3 8.5 42.1 108.7 136.5
160 205-1770 160 205-1800 160 205-1850 160 205-1870 160 205-1970 160 205-2500 160 205-2500 160 205-5200 160 205-5000 160 205-6100 160 205-6200 160 205-6300 160 205-6400 160 205-6500 160 205-7500 160 205-7500	Conduit Galv. Rigid Steel, 20 mm diameter (3/4") Conduit Galv. Rigid Steel, 25 mm diameter (1") Conduit Galv. Rigid Steel, 38 mm diameter (2") Conduit Galv. Rigid Steel, 50 mm diameter (2") Conduit Galv. Rigid Steel, 100 mm diameter (4") Conduit Intermediate Steel (IMC), 15 mm diameter (1/2") Conduit Intermediate Steel (IMC), 25 mm diameter (1") Conduit Intermediate Steel (IMC), 50 mm diameter (2") Conduit Electric Metallic Tubing (EMT), 15 mm diameter (1/2") Conduit Electric Metallic Tubing (EMT), 20 mm diameter (3/4") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (1") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (2") Conduit PVC Sch 40; 20x1.8mm diameter (3/4") Conduit PVC Sch 40; 32x1.8mm diameter (1-1/4") Conduit PVC Sch 40; 30x1.8mm diameter (1-1/2") Conduit PVC Sch 40; 50x1.8mm diameter (2") Conduit PVC Sch 40; 50x1.8mm diameter (2") Conduit PVC Sch 40; 50x1.9mm diameter (6") Conduit PVC Sch 40; 150x11.9mm diameter (6") Conduit Flexible, steel, size 15 mm (100 ft/Roll) Conduit Flexible, steel, size 38 mm (25 ft/roll) Conduit Flexible, steel, size 50 mm (25 ft/roll) Trench duct, steel with cover adjustable depths to 100mm, straight, single		10.6 14.9 24.2 32.4 93.7 2.5 3.6 4.5 4.5 6.7 9.7 22.3 2.6 5.3 6.3 8.5 12.6 42.1 108.7 136.5
160 205-1770 160 205-1800 160 205-1850 160 205-1870 160 205-1970 160 205-2500 160 205-2500 160 205-2630 160 205-5000 160 205-5000 160 205-6000 160 205-6100 160 205-6300 160 205-6400 160 205-6500 160 205-7500 160 205-7500 160 205-7500 160 205-7500 160 205-7500	Conduit Galv. Rigid Steel, 20 mm diameter (3/4") Conduit Galv. Rigid Steel, 25 mm diameter (1") Conduit Galv. Rigid Steel, 38 mm diameter (2") Conduit Galv. Rigid Steel, 50 mm diameter (4") Conduit Galv. Rigid Steel, 100 mm diameter (4") Conduit Intermediate Steel (IMC), 15 mm diameter (1/2") Conduit Intermediate Steel (IMC), 25 mm diameter (1") Conduit Intermediate Steel (IMC), 50 mm diameter (2") Conduit Electric Metalic Tubing (EMT), 15 mm diameter (1/2") Conduit Electric Metallic Tubing (EMT), 20 mm diameter (3/4") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (1") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (2") Conduit PVC Sch 40; 20x1.8mm diameter (3/4") Conduit PVC Sch 40; 32x1.8mm diameter (1-1/4") Conduit PVC Sch 40; 32x1.8mm diameter (1-1/4") Conduit PVC Sch 40; 50x1.8mm diameter (1-1/2") Conduit PVC Sch 40; 50x1.8mm diameter (2") Conduit PVC Sch 40; 150x11.9mm diameter (6") Conduit Flexible, steel, size 15 mm (100 ft/Roll) Conduit Flexible, steel, size 38 mm (25 ft/roll) Conduit Flexible, steel, size 50 mm (25 ft/roll) Trench duct, steel with cover adjustable depths to 100mm, straight, single compartment, 900 mm wide	ROLL	10.6 14.9 24.2 32.4 93.7 2.5 3.6 4.5 4.5 6.7 9.7 22.3 2.6 5.3 6.3 8.5 12.6 42.1 108.7 136.5 171.6 212.8
160 205-1770 160 205-1800 160 205-1850 160 205-1870 160 205-1970 160 205-2500 160 205-2550 160 205-2630 160 205-5200 160 205-5200 160 205-5100 160 205-6100 160 205-6100 160 205-6300 160 205-6400 160 205-6500 160 205-6700 160 205-7100 160 205-7500 160 205-7500 160 205-7500 160 205-7500 160 205-7500 160 205-7500 160 205-7500 160 540-1000	Conduit Galv. Rigid Steel, 20 mm diameter (3/4") Conduit Galv. Rigid Steel, 25 mm diameter (1") Conduit Galv. Rigid Steel, 38 mm diameter (1-1/2") Conduit Galv. Rigid Steel, 50 mm diameter (2") Conduit Galv. Rigid Steel, 100 mm diameter (4") Conduit Intermediate Steel (IMC), 15 mm diameter (1") Conduit Intermediate Steel (IMC), 25 mm diameter (1") Conduit Intermediate Steel (IMC), 50 mm diameter (2") Conduit Electric Metalic Tubing (EMT), 15 mm diameter (1/2") Conduit Electric Metalic Tubing (EMT), 20 mm diameter (3/4") Conduit Electric Metallic Tubing (EMT), 25 mm diameter (1") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (1") Conduit PVC Sch 40; 20x1.8mm diameter (3/4") Conduit PVC Sch 40; 32x1.8mm diameter (3/4") Conduit PVC Sch 40; 32x1.8mm diameter (1-1/4") Conduit PVC Sch 40; 50x1.8mm diameter (1-1/2") Conduit PVC Sch 40; 50x1.8mm diameter (2-1/2") Conduit PVC Sch 40; 50x1.9mm diameter (6") Conduit PVC Sch 40; 150x11.9mm diameter (6") Conduit Flexible, steel, size 15 mm (100 ft/Roll) Conduit Flexible, steel, size 38 mm (25 ft/roll) Conduit Flexible, steel, size 50 mm (25 ft/roll) Conduit Flexible, steel, size 50 mm (25 ft/roll) Trench duct, steel with cover adjustable depths to 100mm, straight, single compartment, 900 mm wide Trench duct fitting; horizontal or vertical Elbow, 900 mm wide	ROLL	16.3 10.6 14.9 24.2 32.4 93.7 2.5 3.6 4.5 4.5 6.7 9.7 22.3 2.6 5.3 6.3 8.5 12.6 42.1 108.7 136.5 171.6 212.8
160 205-1770 160 205-1800 160 205-1850 160 205-1870 160 205-1970 160 205-2500 160 205-2550 160 205-2630 160 205-5000 160 205-5000 160 205-5100 160 205-6100 160 205-6100 160 205-6300 160 205-6300 160 205-6400 160 205-6500 160 205-7100 160 205-7500 160 205-7500 160 205-7500 160 205-7500 160 205-7500 160 205-7500 160 205-7500 160 540-1000 160 540-2000	Conduit Galv. Rigid Steel, 20 mm diameter (3/4") Conduit Galv. Rigid Steel, 25 mm diameter (1") Conduit Galv. Rigid Steel, 38 mm diameter (1-1/2") Conduit Galv. Rigid Steel, 50 mm diameter (2") Conduit Galv. Rigid Steel, 100 mm diameter (4") Conduit Intermediate Steel (IMC), 15 mm diameter (1/2") Conduit Intermediate Steel (IMC), 25 mm diameter (1") Conduit Intermediate Steel (IMC), 50 mm diameter (2") Conduit Electric Metalic Tubing (EMT), 15 mm diameter (1/2") Conduit Electric Metallic Tubing (EMT), 20 mm diameter (3/4") Conduit Electric Metallic Tubing (EMT), 25 mm diameter (1") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (2") Conduit PVC Sch 40; 20x1.8mm diameter (3/4") Conduit PVC Sch 40; 32x1.8mm diameter (3/4") Conduit PVC Sch 40; 40x1.9mm diameter (1-1/4") Conduit PVC Sch 40; 50x1.8mm diameter (2-1/2") Conduit PVC Sch 40; 50x1.8mm diameter (2") Conduit PVC Sch 40; 50x1.9mm diameter (6") Conduit PVC Sch 40; 150x11.9mm diameter (6") Conduit PVC Sch 40; 150x11.9mm diameter (6") Conduit Flexible, steel, size 15 mm (100 ft/Roll) Conduit Flexible, steel, size 38 mm (25 ft/roll) Conduit Flexible, steel, size 50 mm (25 ft/roll) Conduit Flexible, steel, size 50 mm (25 ft/roll) Trench duct, steel with cover adjustable depths to 100mm, straight, single compartment, 900 mm wide Trench duct fitting; horizontal or vertical Elbow, 900 mm wide Trench duct; Cross fitting, 900 mm wide	ROLL	10.6 14.9 24.2 32.4 93.7 2.5 3.6 4.5 4.5 6.7 9.7 22.3 2.6 5.3 6.3 8.5 12.6 42.1 108.7 136.5 171.6 212.8
160 205-1770 160 205-1800 160 205-1850 160 205-1870 160 205-1970 160 205-2500 160 205-2500 160 205-2630 160 205-5200 160 205-5200 160 205-5100 160 205-6100 160 205-6100 160 205-6300 160 205-6400 160 205-6500 160 205-6700 160 205-7100 160 205-7700 160 205-7700 160 205-7500 160 205-7400 160 205-7500 160 205-7500 160 205-7500 160 205-7500 160 205-7500 160 540-1000 160 540-1000	Conduit Galv. Rigid Steel, 20 mm diameter (3/4") Conduit Galv. Rigid Steel, 25 mm diameter (1") Conduit Galv. Rigid Steel, 38 mm diameter (1-1/2") Conduit Galv. Rigid Steel, 50 mm diameter (2") Conduit Galv. Rigid Steel, 100 mm diameter (4") Conduit Intermediate Steel (IMC), 15 mm diameter (1") Conduit Intermediate Steel (IMC), 25 mm diameter (1") Conduit Intermediate Steel (IMC), 50 mm diameter (2") Conduit Electric Metalic Tubing (EMT), 15 mm diameter (1/2") Conduit Electric Metalic Tubing (EMT), 20 mm diameter (3/4") Conduit Electric Metallic Tubing (EMT), 25 mm diameter (1") Conduit Electric Metallic Tubing (EMT), 50 mm diameter (1") Conduit PVC Sch 40; 20x1.8mm diameter (3/4") Conduit PVC Sch 40; 32x1.8mm diameter (3/4") Conduit PVC Sch 40; 32x1.8mm diameter (1-1/4") Conduit PVC Sch 40; 50x1.8mm diameter (1-1/2") Conduit PVC Sch 40; 50x1.8mm diameter (2-1/2") Conduit PVC Sch 40; 50x1.9mm diameter (6") Conduit PVC Sch 40; 150x11.9mm diameter (6") Conduit Flexible, steel, size 15 mm (100 ft/Roll) Conduit Flexible, steel, size 38 mm (25 ft/roll) Conduit Flexible, steel, size 50 mm (25 ft/roll) Conduit Flexible, steel, size 50 mm (25 ft/roll) Trench duct, steel with cover adjustable depths to 100mm, straight, single compartment, 900 mm wide Trench duct fitting; horizontal or vertical Elbow, 900 mm wide	ROLL	10.6 14.9 24.2 32.4 93.7 2.5 3.6 4.5 4.5 6.7 9.7 22.3 2.6 5.3 6.3 8.5 12.6 42.1 108.7 136.5 171.6 212.8

160 560-0000 Floor trunking fittings; Junction box, single duct, 1 level, 80 mm 160 560-1200 Floor trunking fittings; Junction box, 2 duct, 1 level, 80 mm 160 560-1200 Floor trunking fittings; Junction box, 2 duct, 1 level, 80 mm 160 560-1200 Floor trunking fitting; Support, single cell 80 mm wide 160 560-2000 Floor trunking fitting; Support, single cell 80 mm wide 160 560-2000 Floor trunking fitting; Support, single cell 80 mm wide 160 560-2000 Floor trunking fitting; Support, single cell 80 mm wide 160 560-2000 Floor trunking fitting; Cabinet connector, standard duct 80 mm 160 560-2000 Floor trunking fitting; Cabinet connector, standard duct 80 mm 160 560-3000 Floor trunking fitting; Cabinet connector, standard duct 80 mm 160 560-3000 Floor trunking fitting; Conduit adapter, 25 mm to 32 mm 160 560-3000 Floor trunking fitting; Conduit adapter, 25 mm to 32 mm 160 560-3000 Floor trunking fitting; Conduit adapter, 25 mm to 32 mm 160 560-3000 Floor trunking fitting; Conduit adapter, 25 mm to 32 mm 160 560-4200 Floor trunking fitting; Support, standard copper conductor, Conduit adapter, 25 mm to 32 mm 161 105 CONDUCTORS 161 105 ARMORED CABLE: 161 105 CONDUCTORS 161 105 ARMORED CABLE: 161 105-0200 ARMORED CABLE: 161 105-0300 ARMORED CABLE:CABLE CABLE CABLE CABLE CABLE ARMORE	CODE	ITEM DESCRIPTION	UNIT	COST PE
160 560-000 Floor trunking 35 mm x 80 mm with 35 mm inserts at 600 mm O.C. LM 160 560-060 Elocor trunking 35 mm x 180 mm inserts at 600 mm O.C. LM 160 560-0600 Elocor trunking 35 mm x 180 mm inserts at 600 mm O.C. 100 560-0800 Elocor trunking 35 mm x 180 mm inserts at 600 mm O.C. 100 560-0800 Elocor trunking fittings; Junction box, single duct, 1 level, 80 mm EA 2 160 560-1800 Elocor trunking fittings; Junction box, single duct, 1 level, 80 mm 2 160 560-1800 Elocor trunking fittings; Junction box, 2 duct, 1 level, 80 mm 2 160 560-1800 Elocor trunking fittings; Junction box 2 duct, 1 level, 80 mm 2 160 560-1800 Elocor trunking fittings; Junction box 2 duct, 1 level, 80 mm 2 160 560-1800 Elocor trunking fittings; Junction box 2 duct, 1 level, 80 mm 2 160 560-1800 Elocor trunking fittings; Lancetto box, single duct, 1 level, 80 mm 2 160 560-1800 Elocor trunking fitting; Vertical Elbow, super duct 180 mm 1 160 560-1800 Elocor trunking fitting; Cabinet connector, standard duct 80 mm 1 160 560-1800 Elocor trunking fitting; Cabinet connector, standard duct 80 mm 1 160 560-1800 Elocor trunking fitting; Cabinet connector, standard duct 80 mm 1 160 560-1800 Elocor trunking fitting; Cabinet connector, standard duct 80 mm 1 161 560-1800 Elocor trunking fitting; Cabinet connector, standard duct 80 mm 1 161 105 CONDUCTORS & GROUNDING CONDUCTORS CONDUCTORS CONDUCTORS CONDUCTORS	160 540-8400	Trench duct fitting; Insert assembly,cell to conduit adapter, 32 mm	+	50
160 560-0800 Floor trunking fittings; Junction box, single duct, 1 level, 80 mm EA 2 160 560-1000 Floor trunking fittings; Junction box, single duct, 1 level, 80 mm EA 2 160 560-1000 Floor trunking fittings; Junction box, single duct, 1 level, 80 mm EA 2 160 560-1000 Floor trunking fittings; Junction box, single duct, 1 level, 80 mm 2 160 560-1000 Floor trunking fittings; Junction box, 2 duct, 1 level, 80 mm 2 160 560-1000 Floor trunking fittings; Junction box, 2 duct, 1 level, 80 mm 2 160 560-1000 Floor trunking fittings; Support, single cell 80 mm 4 160 560-1000 Floor trunking fitting; Support, single cell 80 mm 4 160 560-1000 Floor trunking fitting; Support, single cell 80 mm 4 160 560-1000 Floor trunking fitting; Cabinet connector, standard duct 80 mm 4 160 560-1000 Floor trunking fitting; Cabinet connector, standard duct 80 mm 4 160 560-1000 Floor trunking fitting; Cabinet connector, standard duct 80 mm 4 160 560-1000 Floor trunking fitting; Cabinet connector, standard duct 80 mm 4 160 560-1000 Floor trunking fitting; Cabinet connector, standard duct 80 mm 4 160 560-1000 Floor trunking fitting; Cabinet connector, standard duct 80 mm 4 160 560-1000 Floor trunking fitting; Cabinet connector, standard copper duct 180 mm 4 160 560-1000 Floor trunking fitting; Cabinet connector, standard copper conductor, XLPE insulated, steel wire armoured and PVC sheathed, 3 x 25 + 16 mm 4 161 105-0100 6 7 1 1 1 1 1 1 1 1 1	160 560	UNDERFLOOR DUCT:		
160 560-0600 Floor trunking 35 mm x 180 mm super duct with 22 mm or 35 mm inserts at 600 mm O.C. 160 560-0600 Floor trunking fittings; Junction box,single duct. 1 level, 80 mm	160 560-0400	Floor trunking 35 mm x 80 mm with 35 mm inserts at 600 mm O.C.	LM	75
160 560-0800 Floor trunking fittings; Junction box,single duct, 1 level, 80 mm EA 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Floor trunking 35 mm x 180 mm , super duct with 22 mm or 35 mm inserts at 600		
160 560-1000 Floor trunking fittings; Junction box, 2 dut, 1 level, 180 mm 2 160 560-100 Floor trunking fittings; Junction box, 2 dut, 1 level, 80 mm 2 160 560-200 Floor trunking fittings; byent to conduit adapter, 19 mm & 25 mm 2 160 560-200 Floor trunking fittings; byent to conduit adapter, 19 mm & 25 mm 2 160 560-200 Floor trunking fitting; Support, single cell 80 mm wide 160 560-200 Floor trunking fitting; Support, single cell 80 mm wide 160 560-200 Floor trunking fitting; Cabinet connector, super duct 180 mm 1 160 560-320 Floor trunking fitting; Cabinet connector, super duct 180 mm 1 160 560-320 Floor trunking fitting; Cabinet connector, super duct 180 mm 1 160 560-320 Floor trunking fitting; Cabinet connector, super duct 180 mm 1 160 560-320 Floor trunking fitting; Cabinet connector, super duct 180 mm 1 160 560-320 Floor trunking fitting; Cabinet connector, super duct 180 mm 1 160 560-320 Floor trunking fitting; Cabinet connector, super duct 180 mm 1 161 105 CONDUCTORS GROUNDING CONDUCTORS GROUNDING CONDUCTORS GROUNDING CONDUCTORS GROUNDING CONDUCTORS GROUNDING CONDUCTORS CONDUCTO	160 560-0800	TO DESCRIPTION OF THE PROPERTY	5-50	150
160 560-1200 Floor trunking fittings; Supert to conduit adapter, 19 mm & 5 mm 2 mm	160 560-1000	Floor trunking fittings; Junction box, single duct, 1 level, 180 mm	EA	250 350
160 560-2000 Floor trunking fittings: Upport, single cell 80 mm wide 160 560-2000 Floor trunking fittings: Upport, single cell 80 mm wide 160 560-2000 Floor trunking fitting; Vertical Elbow, standard duct 80 mm 160 560-2000 Floor trunking fitting; Cabinet connector, standard duct 80 mm 160 560-3200 Floor trunking fitting; Cabinet connector, standard duct 80 mm 160 560-3200 Floor trunking fitting; Cabinet connector, standard duct 80 mm 160 560-3200 Floor trunking fitting; Cabinet connector, standard duct 80 mm 160 560-3200 Floor trunking fitting; Cabinet connector, standard duct 80 mm 160 560-3200 Floor trunking fitting; Cabinet connector, standard duct 80 mm 160 560-3200 Floor trunking fitting; Cabinet connector, standard duct 80 mm 160 560-3200 Floor trunking fitting; Cabinet connector, standard duct 80 mm 160 560-3200 Floor trunking fitting; Cabinet connector, standard duct 80 mm 160 560-3200 Floor trunking fitting; Cabinet connector, standard duct 80 mm 161 105 coso 161	160 560-1200	Floor trunking fittings; Junction box, 2 duct, 1 level, 80 mm		250
160 560-2800 Floor trunking fitting; Vertical Elbow, super duct 180 mm 160 560-3200 Floor trunking fitting; Cabinet connector, standard duct 80 mm 160 560-3200 Floor trunking fitting; Cabinet connector, super duct 180 mm 160 560-3600 Floor trunking fitting; Cabinet connector, super duct 180 mm 160 560-3600 Floor trunking fitting; Low tension Outlet, (telephone, computer, etc.) 160 560-4000 Floor trunking fitting; Low tension Outlet, (telephone, computer, etc.) 161 105 MRMORED CABLE: 161 105 ARMORED CABLE: 161 105 ARMORED CABLE: 161 105 ARMORED CABLE: 161 105-000 161 107 ARMORED CABLE: 161 105-010 161 105-010 161 105 ARMORED CABLE: 161 105-020 161 105 ARMORED CABLE: 161 105-020 162 ARMORED CABLE: 163 105-020 164 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armoured and PVC sheathed, 3 x 25 + 16 mm 161 105-030 161 105-030 161 105-030 162 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armoured and PVC sheathed, 3 x 70 + 35 mm 161 105-050 161 105-050 162 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 300 + 150 mm 161 105-060 161 105-060 162 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 300 + 150 mm 161 105-200 161 105-200 162 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 300 + 150 mm 161 105-200 161 105-200 162 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 300 + 150 mm 161 105-500 161 105-500 161 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 300 + 150 mm 161 105-500 161 105-510 16	160 560-1800	Floor trunking fittings; Insert to conduit adapter, 19 mm & 25 mm		250
160 560-3000 Floor trunking fitting; Vertical Elbow, super duct 180 mm 160 560-3400 Floor trunking fitting; Cabinet connector, standard duct 80 mm 160 560-3400 Floor trunking fitting; Cabinet connector, super duct 180 mm 160 560-3600 Floor trunking fitting; Conduit adapter, 25 mm to 32 mm 160 560-3600 Floor trunking fitting; Conduit adapter, 25 mm to 32 mm 160 560-4000 Floor trunking fitting; Conduit adapter, 25 mm to 32 mm 160 560-4000 Floor trunking fitting; Receptacle outlet 161 CONDUCTORS & GROUNDING 161 105 ARMORED CABLE: 161 105 CONDUCTORS 161 105 ARMORED CABLE: 161 105-000 162 KV, with core cable, stranded copper conductor, XLPE insulated, steel wire armoured and PVC sheathed, 3 x 25 + 16 mm 161 105-020 163 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armoured and PVC sheathed, 3 x 25 + 16 mm 161 105-0300 164 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 25 + 35 mm 161 105-0500 164 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 185 + 95 mm 161 105-0500 164 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 185 + 95 mm 161 105-200 161 105-200 161 105-200 162 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 185 + 95 mm 161 105-200 161 105-200 161 105-300 161 10	160 560-2000	Floor trunking fitting; Support,single cell 80 mm wide		50
160 560-3200 Floor trunking fitting; Cabinet connector, super duct 180 mm 160 560-3600 Floor trunking fitting; Conduit adapter, 25 mm to 32 mm 160 560-3600 Floor trunking fitting; Conduit adapter, 25 mm to 32 mm 160 560-4200 Floor trunking fitting; Low tension Outlet, (telephone, computer, etc.) 161 105 660-4200 Floor trunking fitting; Low tension Outlet, (telephone, computer, etc.) 161 105 CONDUCTORS & GROUNDING 161 105 ARMORED CABLE: 161 105-0050 162 IfVX wire armoured cable, PVC insulated & PVC sheath(jacket); copper; 4 x 6 mm 161 105-0100 163 IfVX, multi core cable, stranded copper conductor, XLPE insulated, steel wire armoured and PVC sheathed, 4 x 16 mm 161 105-0200 163 IfVX, multi core cable, stranded copper conductor, XLPE insulated, steel wire armoured and PVC sheathed, 3 x 25 + 16 mm 161 105-0300 163 IfVX, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 370 + 35 mm 161 105-0500 164 IfVX, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 300 + 150 mm 161 105-0600 163 IfVX, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 300 + 150 mm 161 105-0600 164 IfVX, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 300 + 150 mm 161 105-2100 161 105-2000 162 IfVX, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 340 + 120 mm 161 105-5000 162 IfVX, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 450 + 120 mm 161 105-5000 162 IfVX, multi core cable, stranded compacted copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 240 + 120 mm 161 105-5000 163 IfVX, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 25 mm2 161 105-5300 161 105-5300 161 105-5300 161 105-5300 162 IfVX, 3 core ca	160 560-3000	Floor trunking fitting; Vertical Elbow, standard duct 80 mm	7 - 7	75
160 560-3400 Floor trunking fitting; Cabinet connector, super duct 180 mm 160 560-3600 Floor trunking fitting; Conduit adapter, 25 mm to 32 mm 160 560-4200 Floor trunking fitting; Low tension Outlet, (felephone, computer, etc.) 161	160 560-3200	Floor trunking fitting: Cabinet connector standard dust 80 mm		175
160 560-4000 Floor trunking fitting: Conduit adapter, 25 mm to 32 mm 160 560-4200 Floor trunking fitting: Own tension Outlet, (telephone, computer, etc.) 161 105 CONDUCTORS & GROUNDING 161 105 ARMORED CABLE: 161 105 ARMORED CABLE: 161 105 OSC5 Mm2 161 105-0100 O.671 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 4 x 16 mm2 161 105-0200 O.671 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 25 + 16 mm 161 105-0300 O.671 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 70 + 35 mm 161 105-0300 O.671 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 70 + 35 mm 161 105-0500 O.671 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 300 + 150 mm 161 105-0500 O.671 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 300 + 150 mm 161 105-0500 O.671 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 300 + 150 mm 161 105-200 O.671 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 240 + 120 mm 161 105-2300 O.671 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 240 + 120 mm 161 105-5000 O.671 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 240 + 120 mm 161 105-5100 O.671 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, sheathed, 3 x 25 mm2 161 105-5300 O.671 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, sheathed, 3 x 185 mm2 161 105-5300 O.671 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, sheathed, 3 x 185 mm2 161 105-5400 O.671 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, sheath	160 560-3400	Floor trunking fitting: Cabinet connector super duct 180 mm		25
160 560-4200 Floor trunking fittings: Receptacle outlet 161 100 CONDUCTORS & GROUNDING 161 105 ARMORED CABLE: 161 105 COSO 161 105 ARMORED CABLE: 161 105 COSO 161 105 OSO 161 105 OSO 162 OSO 163 IV wire armoured cable, PVC insulated & PVC sheath(jacket);copper; 4 x 6 161 105-0200 163 IV wire armoured cable, stranded copper conductor, XLPE insulated, steel wire armoured and PVC sheathed, 4 x 16 mm2 161 105-0200 163 IV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armoured and PVC sheathed, 3 x 25 + 16 mm 161 105-0300 163 IV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 70 + 35 mm 161 105-0500 163 IV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 300 + 150 mm 161 105-0500 163 IV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 300 + 150 mm 161 105-2000 164 IV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 300 + 150 mm 161 105-2300 163 IV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 240 + 120 mm 161 105-2300 163 IV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 240 + 120 mm 161 105-5000 163 IV, so core cable, stranded compacted copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 240 + 120 mm 161 105-5000 161 105-5100 161 105-5100 161 105-5300 161 105-5300 161 105-5300 162 IV, so core cable, stranded compacted copper conductor, XLPE insulated, steel wire armored PVC sheathed, 3 x 250 mm2 161 105-5300 161 105-5300 161 105-5300 161 105-5300 161 105-5300 161 105-5300 161 105-5300 161 105-5300 161 105-5300 161 105-5300 161 105-5300 161 105-5300 161 105-5300 161 105-5300 161 105-5300 161 105-5300 161 105-5300 161 IV, so core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel w	160 560-3600	Floor trunking fitting; Conduit adapter.25 mm to 32 mm		75
161 CONDUCTORS & GROUNDING 161 105 ARMORED CABLE: 161 105 OSD 161 105 ARMORED CABLE: 161 105 OSD 162 I KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armoured and PVC sheathed, 3 x 25 + 16 mm 161 105 OSD	160 560-4000	Floor trunking fitting; Low tension Outlet (telephone computer etc.)		50 37
61 105 CONDUCTORS & GROUNDING 61 105 ARMORED CABLE: 161 105 0050 IKV wire armoured cable, PVC insulated & PVC sheath(jacket); copper; 4 x 6 LM mm2 161 105-0100 IKV wire armoured cable, PVC insulated & PVC sheath(jacket); copper; 4 x 6 LM mm2 161 105-0200 IKV wire armoured cable, stranded copper conductor, XLPE insulated, steel wire armoured and PVC sheathed, 4 x 16 mm2 161 105-0200 IAC IKV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armoured and PVC sheathed, 3 x 25 + 16 mm 161 105-0300 IAC IKV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 70 + 35 mm 161 105-0500 IAC IKV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 300 + 150 mm 161 105-0500 IAC IKV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 300 + 150 mm 161 105-2100 IAC IKV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 150 + 70 mm 161 105-2300 IAC IKV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 240 + 120 mm 161 105-5000 IAC IKV, multi core cable, stranded copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 25 mm2 161 105-5150 IAC IKV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 95 mm2 161 105-5300 IAC IKV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 95 mm2 161 105-5300 IAC IKV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 240 mm2 161 105-5400 IAC IKV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper t	160 560-4200	Floor trunking fittings: Receptacle outlet	+	65
61 105 CONDUCTORS 61 105 ARMORED CABLE: 161 105 cost. 1KV wire armoured cable,PVC insulated & PVC sheath(jacket);copper; 4 x 6 LM mm2 m	161	CONDUCTORS & GROUNDING		
161 105-050 1KV wire armoured cable, PVC insulated & PVC sheath(jacket);copper; 4 x 6 mm2 161 105-0100 0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armoured and PVC sheathed, 4 x 16 mm2 161 105-0200 161 105-0300 0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armoured and PVC sheathed, 3 x 25 + 16 mm 161 105-0300 0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 70 + 35 mm 161 105-0500 16	61 100			
161 105-0100 0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armoured and PVC sheathed, 4 x 16 mm2 161 105-0200 161 105-0200 161 105-0300 0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armoured and PVC sheathed, 3 x 70 + 35 mm 10-05-0300 0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 70 + 35 mm 10-05-0300 0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 185 + 95 mm 0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 185 + 95 mm 0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 150 + 70 mm 161 105-2000 0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 150 + 70 mm 161 105-2300 0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 250 + 120 mm 161 105-5000 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, wire armored and PVC sheathed, 3 x 250 + 120 mm 161 105-5000 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, steel wire armored PVC sheathed, 3 x 250 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, steel wire armored PVC sheathed, 3 x 95 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, sheathed, 3 x 240 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, sheathed, 3 x 240 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, sheathed, 3 x 240 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, sheathed, 3 x 300 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, sheathed, 3 x 300 mm2 8.7/15 KV, 3 core cable, stranded c	61 105	ARMORED CABLE:		
161 105-0100 0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armoured and PVC sheathed, 4 x 16 mm 161 105-0200 0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 25 ± 16 mm 161 105-0300 0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 70 ± 35 mm 161 105-0500 0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 30 ± 150 mm 26	161 105 0050	1KV wire armoured cable, PVC insulated & PVC sheath(jacket);copper; 4 x 6 mm2	LM	
0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armoured and PVC sheathed, 3 x 25 + 15 mm 10.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 70 + 35 mm 10.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 185 + 95 mm 10.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 185 + 95 mm 10.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 300 + 150 mm 10.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 150 + 70 mm 10.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 240 + 120 mm 10.6/1 KV, multi core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 25 mm 10.6/1 KV, a core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armoured PVC sheathed, 3 x 95 mm 10.6/1 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 185 mm 10.6/1 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 240 mm 10.6/1 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 240 mm 10.6/1 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 20 mm 10.6/1 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper wire screened, steel wire	161 105-0100	0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armoured and PVC sheathed, 4 x 16 mm2		15.
0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 70 + 35 mm 161 105-0500 161 105-0600 161 105-0600 161 105-0600 161 105-2100 161 105-2100 161 105-22100 161 105-2300 161 105-2300 161 105-2300 161 105-5300 161	161 105-0200	0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated steel		36.
0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 185 + 95 mm 161 105-0600 0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 300 + 150 mm 161 105-2100 0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 150 + 70 mm 161 105-2300 0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 250 + 120 mm 8.7/15 KV, 3 core cable, stranded copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 25 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 95 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 185 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 240 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 240 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 300 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 95 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded strippable semicon + copper wire screened, DST armored PVC sheathed, 3 x 95 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, sheathed, 3 x 95 mm2	161 105-0300	0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel	\dashv	38.
Wire armored and PVC sheathed, 3 x 185 + 95 mm 161 105-0600 0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 300 + 150 mm 161 105-2100 0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 150 + 70 mm 161 105-2300 0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 240 + 120 mm 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 25 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 95 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 185 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 240 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 240 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 300 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper wire screened, steel wire armored PVC sheathed, 3 x 300 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded strippable semicon + copper wire screened, DST armored PVC sheathed, 3 x 95mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded strippable semicon + copper wire screened, DST armored PVC sheathed, 3 x 95mm2	101 105 0500	0.6/1 KV, multi core cable stranded copper conductor, VI PE inculated about		108.
wire armored and PVC sheathed, 3 x 300 + 150 mm 161 105-2100 161 105-2300 161 105-2300 161 105-2300 161 105-2300 161 105-3000 161 105-3		wire armored and PVC sheathed, 3 x 185 + 95 mm		260.
161 105-2100 161 105-2100 161 105-2300 161 105-2300 161 105-2300 161 105-300 161 105-300 161 105-300 161 105-5000 162 105-300 163 105-300 164 105-300 165 105-300 166 105-300 166 105-300 166 105-300 167 105-300 168 105-300 169 105-300 160 105-300		wire armored and PVC sheathed, 3 x 300 + 150 mm		370.
0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel wire armored and PVC sheathed, 3 x 240 + 120 mm 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 25 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armoured PVC sheathed, 3 x 95 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 185 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 240 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 240 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 300 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded strippable semicon + copper wire screened, DST armored PVC sheathed, 3 x 95mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded strippable semicon + copper wire screened, DST armored PVC sheathed, 3 x 95mm2	161 105-2100	0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated steel		
8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 25 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armoured PVC sheathed, 3 x 95 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 185 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 240 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 300 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 300 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded strippable semicon + copper wire screened, DST armored PVC sheathed, 3 x 95mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded strippable semicon + copper wire screened, DST armored PVC sheathed, 3 x 95mm2	161 105-2300	0.6/1 KV, multi core cable, stranded copper conductor, XLPE insulated, steel	++	205.
extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 25 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armoured PVC sheathed, 3 x 95 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 185 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 240 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 300 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded strippable semicon + copper wire screened, DST armored PVC sheathed, 3 x 95mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded strippable semicon + copper wire screened, DST armored PVC sheathed, 3 x 95mm2		wire armored and PVC sheathed, 3 x 240 + 120 mm		330.
8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armoured PVC sheathed, 3 x 95 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 185 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 240 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 300 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 300 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded strippable semicon + copper wire screened, DST armored PVC sheathed, 3 x 95mm2 190 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded strippable semicon + copper wire screened, DST armored PVC sheathed, 3 x 95mm2	161 105-5000	extruded bonded semicon + conner tane screened, steel wire armored BVC	-	
8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armoured PVC sheathed, 3 x 95 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 185 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 240 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 300 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded strippable semicon + copper wire screened, DST armored PVC sheathed, 3 x 95mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded strippable semicon + copper wire screened, DST armored PVC sheathed, 3 x 95mm2		sheathed, 3 x 25 mm2		90.
8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 185 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 240 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 240 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 300 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded strippable semicon + copper wire screened, DST armored PVC sheathed, 3 x 95mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded strippable semicon + copper wire screened, DST armored PVC 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded strippable semicon + copper wire screened, DST armored PVC 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated		8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated.		30.
8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 185 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 240 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 300 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 300 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded strippable semicon + copper wire screened, DST armored PVC sheathed, 3 x 95mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded strippable semicon + copper wire screened, DST armored PVC	101 105-5150	extruded bonded semicon + copper tape screened, steel wire armoured PVC		
8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 240 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 240 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 300 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded strippable semicon + copper wire screened, DST armored PVC sheathed, 3 x 95mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated 196				207.
8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 240 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 300 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded strippable semicon + copper wire screened, DST armored PVC sheathed, 3 x 95mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded strippable semicon + copper wire screened, DST armored PVC sheathed, 3 x 95mm2	161 105-5300	extruded bonded semicon + copper tape serroned extended bonded semicon + copper tape services + copper tape semicon + copper +		
8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 240 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 300 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded strippable semicon + copper wire screened, DST armored PVC sheathed, 3 x 95mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, and stranded compacted copper conductor, XLPE insulated, stranded compacted copper conductor, XLPE insulated, and stranded compacted copper conductor, XLPE insulated, stranded copper conduc		sheathed, 3 x 185 mm2		000
8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 240 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 300 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded strippable semicon + copper wire screened, DST armored PVC sheathed, 3 x 95mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated	1.77	8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated		328.
8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded bonded semicon + copper tape screened, steel wire armored PVC sheathed, 3 x 300 mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded strippable semicon + copper wire screened, DST armored PVC sheathed, 3 x 95mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XI PE insulated	161 105-5350	extruded bonded semicon + copper tape screened, steel wire armored PVC	*	
8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, sheathed, 3 x 95mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded strippable semicon + copper wire screened, DST armored PVC sheathed, 3 x 95mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated				414.0
8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated, extruded strippable semicon + copper wire screened, DST armored PVC sheathed, 3 x 95mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated	161 105-5400	extruded bonded semicon + copper tape screened, steel wire armored PVC		
sheathed, 3 x 95mm2 8.7/15 KV, 3 core cable, stranded compacted copper conductor. XI PE insulated			+	460.0
8.7/15 KV, 3 core cable, stranded compacted copper conductor, XI PE insulated	161 105-7200	extruded strippable semicon + copper wire screened, DST armored PVC		190 (
103-7730 extruded strippable semicon + copper wire screened, DST armored PVC	161 105 7750	3.7/15 KV, 3 core cable, stranded compacted copper conductor, XLPE insulated,		130.0
sheathed, 3 x 300 mm2	101 105-7750 6	extruded strippable semicon + copper wire screened, DST armored PVC		

PRODUCTION OF THE PROPERTY OF	N 16: ELECTRICAL		
CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT
	1 KV control cable, 1.5 mm2, PVC jacket; 2 wires	LM	7.8
161 135-0200	1 KV control cable, 1.5 mm2, PVC jacket; 6 wires		19.2
61 137	FIBER OPTICS:		
	Fiber optic cable, 6 core, not armored	LM "	18.0 22.0
	Fiber optic cable, 6 core, armored	EA	37.0
61 140	Fiber optic cable connector MINERAL INSULATED CABLES:		
	1 KV ; mineral insulated, metal sheathed, cable,copper; 1 x 25 mm2, 250\C	LM	
Ment III address so	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		12.6
	1 KV; mineral insulated, metal sheathed, cable,copper; 1 x 50 mm2, 250\C		23.0 48.6
	1 KV; mineral insulated, metal sheathed, cable, copper, 1 x 95mm², 250/ C		46.0
61 145	NON- ARMORED CABLE:		
161 145-0120	0.6/1 KV, single & multi core cable stranded copper conductor, XLPE insulated PVC sheathed, 2 x 1.5 mm2	LM	7.8
161 145-0300	0.6/1 KV, single & multi core cable stranded copper conductor, XLPE insulated PVC sheathed, 6 x 1.5 mm2		19.2
161 145-0380	O.6/1 KV, single & multi core cable stranded copper conductor, XLPE insulated PVC sheathed, 4 x 16 mm2		31.0
161 145-0500	0.6/1 KV, single & multi core cable stranded copper conductor, XLPE insulated PVC sheathed, 3 x 95 + 50 mm		132.0
161 145-0940	0.6/1 KV, single & multi core cable stranded copper conductor, XLPE insulated		205.0
161 145-1100	PVC sheathed, 3 x 150 + 70 mm 0.6/1 KV, single & multi core cable stranded copper conductor, XLPE insulated PVC sheathed, 3 x 300 + 150 mm		417.0
161 145-1180	O.6/1 KV, single & multi core cable stranded copper conductor, XLPE insulated PVC sheathed, 1 x 70 mm2		32.0
161 145-4200	O.6/1 KV, single & multi core cable stranded copper conductor, XLPE insulated PVC sheathed, 1 x 185 mm2		68.0
161 145-4500	O.6/1 KV, single & multi core cable stranded copper conductor, XLPE insulated PVC sheathed, 1 x 300 mm2		120.
161 145-4700	0.6/1 KV, single & multi core cable stranded copper conductor, XLPE insulated PVC sheathed, 4 x 25 mm2		44.0
161 145-4800	0.6/1 KV single & multi-core cable stranded copper conductor, XLPE insulated		155.
161 145-5500	0.6/1 KV , single & multi core cable stranded copper conductor, XLPE insulated PVC sheathed, 4 x 185 mm2		300.
161 145-5510	0.6/1 KV , single & multi core cable stranded copper conductor, XLPE insulated PVC sheathed, 4 x 240 mm2		378.
161 145-5800	0.6/1 KV single & multi core cable stranded copper conductor, XLPE insulated		232.0
161 145-7200	0.6/1 KV single & multi-core cable stranded copper conductor. XLPE insulated		69.
161 145-7360	0.6/1 KV, single & multi core cable stranded copper conductor, XLPE insulated	1)(4)	328.
161 145-7440	0.6/1 KV, single & multi core cable stranded copper conductor, XLPE insulated PVC sheathed, 1 x 25 mm2		12.
161 145-7520	0.6/1 KV , single & multi core cable stranded copper conductor, XLPE insulated PVC sheathed, 1 x 70 mm2		32.
161 145-7840	0.6/1 KV, single & multi-core cable stranded copper conductor. XLPE insulated	370	47.
161 145-7920	0.6/1 KV single & multi-core cable stranded copper conductor. XLPE insulated	The state of	68.
161 145-8000	0.6/1 KV single & multi core cable stranded copper conductor. XLPE insulated		120.
161 145-8080	1 KV cable XI PF insulated PVC Sheathed 90 degree Copper: 3 x 240+120		328.
	1 KV cable, XLPE Insulated, PVC Sheathed, 90 degree, Copper; 3 x 300+ 150		

CSI		Exists Plant Comment in	COST PE
CODE	ITEM DESCRIPTION	UNIT	UNIT
161 145-8280	1 KV cable, XLPE insulated, PVC Sheathed, 90 degree, Copper; 1 x 25 mm2	T.	12
161 145-8400	1 KV cable, XLPE insulated, PVC Sheathed, 90 degree, Copper; 1 x 70 mm2	LM	32
161 145-8480	1 KV cable, XLPE insulated, PVC Sheathed, 90 degree, Copper; 1 x 120 mm2	LM	47
161 145-8560	1 KV cable, XLPE insulated, PVC Sheathed, 90 degree, Copper; 1 x 185 mm2		68
161 145-8640	1 KV cable, XLPE insulated, PVC Sheathed, 90 degree, Copper; 1 x 300 mm2		120
161 145-8770	0.6/1 KV, single & multi core cable stranded aluminium conductor, XLPE insulated PVC sheathed, 4 x 95 mm2	+	50
161 145-8800	0.6/1 KV, single & multi core cable stranded aluminium conductor, XLPE insulated PVC sheathed, 4 x 240 mm2	LM	95
161 145-8830	0.6/1 KV, single & multi core cable stranded aluminium conductor, XLPE insulated PVC sheathed, 4 x 70 mm2		40
161 145-8890	0.6/1 KV, single & multi core cable stranded aluminium conductor, XLPE insulated PVC sheathed, 4 x 150 mm2		80
The state of the s	0.6/1 KV, single & multi core cable stranded aluminium conductor, XLPE insulated PVC sheathed, 4 x 300 mm2		110
NATION NAME OF TAXABLE	0.6/1 KV, single & multi core cable stranded aluminium conductor, XLPE insulated PVC sheathed, 3 x 95 + 50 mm		45
	0.6/1 KV, single & multi core cable stranded aluminium conductor, XLPE insulated PVC sheathed, 3 x 185 + 95 mm		88
TOWN THE WARRY	0.6/1 KV, single & multi core cable stranded aluminium conductor, XLPE insulated PVC sheathed, 3 x 240 +120 mm		90
	0.6/1 KV, single & multi core cable stranded aluminium conductor, XLPE insulated PVC sheathed, 1 x 50 mm2 0.6/1 KV, single & multi core cable stranded aluminium conductor, XLPE		7
TO SECURITION OF THE PARTY OF T	insulated PVC sheathed, 1 x 300 mm2 WIRES:	+	40
T			
	450/750 V, single core stranded, copper wires PVC insulated, 1 x 2.5mm²	LM	96
161 165-0060	450/750 V, single core stranded, copper wires PVC insulated, 1 x 4mm ²		142
161 165-0100	450/750 V, single core stranded, copper wires PVC insulated, 1 x 6mm ²		209
161 165-0140	450/750 V, single core stranded, copper wires PVC insulated, 1 x 10mm ²		343
161 165-0300	600 V, single core stranded, copper conductor, XLPE insulated, 1 x 2.5mm ²		97
161 165-0320	600 V, single core stranded, copper conductor, XLPE insulated, 1 x 4mm ²		147
161 165-0340	600 V, single core stranded, copper conductor, XLPE insulated, 1 x 6mm²		215
161 165-0360	600 V, single core stranded, copper conductor, XLPE insulated, 1 x 10mm ²		250
161 165-0700	500 V, Copper wire, Heat resistant, Rubber, 4.0mm², 75/C		350 190
	600 V, Copper wire, Heat resistant, Rubber, 10.0mm², 75/C	\rightarrow	The common
		\rightarrow	438
	600 V, Copper wire, Heat resistant, Rubber, 4.0mm², 90/C		190
	500 V, Copper wire, Heat resistant, Rubber, 6.0mm², 194/C		242
1 500	TERMINATIONS		
1 520	CABLE TERMINATIONS:		100
	Nire connectors, screw type, 0.75 to 6 mm2	EA T	
161 520-0040 V	Wire connectors, screw -on type, insulated, from 2 to 10 mm2	EA	0.
161 520-0100 7	Ferminal lugs, solderless for wires, 6 to 25 mm2	-	0.
161 520-0375 1	Ferminal lugs, solderless for wires, 240 mm2	-	1.
161 520-0400 T	Ferminal lugs, solderless for wires, 300 mm2		
161 520-2000 V	Wire termination, 1 hole lug,crimp side,copper or aluminium, 25 mm2	+	27.
161 520-3000 V	Wire termination, 1 hole lug,crimp side,copper or aluminium, 95 mm2		
61 520 2800 1	Vire termination, 1 hole lug,crimp side,copper or aluminium, 240 mm2	-	21.
101 320-3600 V			

161 522-0100 1 p 161 522-0500 1 p 161 522-1000 1 p 161 810 161 810-0200 161 810-0200 161 810-1300 161 810-1300 161 810-2100 161 810-4000 161 810-4000 162 110-0020 162 110-0150 162 110-0150 162 110-0160 162 110-0200 162 110-0160 162 110-0200 162 110-0160 162 110-0200 16	TEM DESCRIPTION 15 KV termination, cable 95 mm2 to indoor switchgear or transformer, premolded cone. 15 KV termination, cable 185 mm2 to indoor switchgear or transformer, premolded cone. 15 KV termination, cable 300 mm2 to indoor switchgear or transformer, premolded cone. 15 KV termination, cable 300 mm2 to indoor switchgear or transformer, premolded cone. 15 KV termination, cable 300 mm2 to indoor switchgear or transformer, premolded cone. 16 GROUNDING: 17 GROUNDING: 18	EA EA	71.5 562.0 24.2 55.0 102.0 57.0 153.7
161 522-0100 p 161 522-0500 1 161 522-1000 1 161 810	peremolded cone. 15 KV termination, cable 185 mm2 to indoor switchgear or transformer, peremolded cone. 15 KV termination, cable 300 mm2 to indoor switchgear or transformer, peremolded cone. 15 KV termination, cable 300 mm2 to indoor switchgear or transformer, peremolded cone. 16 GROUNDING 17 GROUNDING: 18 GROUNDING: 18 Ground rod,copper clad, 3.0 m long, 20 mm diameter 18 Ground plate,copper 600 x 600 mm 18 Groundwire,bare copper, 95 mm2 18 Groundwire,bare copper, 150 mm2 18 Groundwire,bare copper, 300 mm2 18 Water pipe ground clamps,heavy duty bronze, 32 mm to 50 mm diameter 18 Ground rod Clamp 20 mm to 240 mm2 bare copper conductor 18 GROUNDING: 18 GROUND	EA	368.0 453.0 71.5 562.0 24.2 55.0 102.0 57.0 153.7
161 522-1000 p 161 800 C 161 810 C 161 810 C 161 810-0200 G 161 810-0200 G 161 810-1300 G 161 810-2100 W 161 810-4000 G 162 110 C 162 110 C 162 110 C 162 110 C 162 110-0100 G 162 110-0100 G 162 110-0100 G 162 110-0100 G	oremolded cone. 15 KV termination, cable 300 mm2 to indoor switchgear or transformer, premolded cone. GROUNDING GROUNDING: Ground rod,copper clad, 3.0 m long, 20 mm diameter around plate,copper 600 x 600 mm Groundwire,bare copper, 95 mm2 Groundwire,bare copper, 150 mm2 Groundwire,bare copper, 300 mm2 Water pipe ground clamps,heavy duty bronze, 32 mm to 50 mm diameter around rod Clamp 20 mm to 240 mm2 bare copper conductor BOXES & WIRING DEVICES BOXES Outlet Box, pressed steel,octagon, 100 mm, 40 mm deep Outlet Box,pressed steel,square, 100 mm, 40 mm deep Outlet Box,pressed steel,square, 100 mm, 40 mm deep Outlet Box,pressed steel,square, 100 mm, 54 mm deep	•	453.0 71.5 562.0 24.2 55.0 102.0 57.0 153.7
161 800 C 161 810 C 161 810 C 161 810 C 161 810-0100 G 161 810-0200 G 161 810-1300 G 161 810-1300 G 161 810-2100 W 161 810-4000 G 162 110 C 162 110-0100 G 162 110-0150 G 162 110-0160 G 162 110-0200 S	GROUNDING: GROUNDING: Ground rod,copper clad, 3.0 m long, 20 mm diameter Ground plate,copper 600 x 600 mm Groundwire,bare copper, 95 mm2 Groundwire,bare copper, 150 mm2 Groundwire,bare copper, 300 mm2 Water pipe ground clamps,heavy duty bronze, 32 mm to 50 mm diameter Ground rod Clamp 20 mm to 240 mm2 bare copper conductor BOXES & WIRING DEVICES BOXES OUTLET BOXES OUTLET BOXES Outlet Box, pressed steel,octagon, 100 mm, 40 mm deep Octagonal box extension cover, 100 mm, 40 mm deep Outlet Box,pressed steel,square, 100 mm, 40 mm deep Outlet Box,pressed steel,square, 100 mm, 54 mm deep	•	71.5 562.0 24.2 55.0 102.0 57.0 153.7
161 810 0 161 810-0100 G 161 810-0200 G 161 810-0800 G 161 810-1000 G 161 810-1300 G 161 810-2100 W 161 810-4000 G 162 110 0 162 110-0100 G 162 110-0150 G 162 110-0160 G 162 110-0200 S	GROUNDING: Ground rod,copper clad, 3.0 m long, 20 mm diameter Ground plate,copper 600 x 600 mm Groundwire,bare copper, 95 mm2 Groundwire,bare copper, 150 mm2 Groundwire,bare copper, 300 mm2 Water pipe ground clamps,heavy duty bronze, 32 mm to 50 mm diameter Ground rod Clamp 20 mm to 240 mm2 bare copper conductor BOXES & WIRING DEVICES BOXES Outlet Box, pressed steel,octagon, 100 mm, 40 mm deep Octagonal box extension cover, 100 mm, 40 mm deep Outlet Box,pressed steel,square, 100 mm, 40 mm deep Outlet Box,pressed steel,square, 100 mm, 40 mm deep	•	562.0 24.2 55.0 102.0 57.0 153.7
161 810-0100 G 161 810-0200 G 161 810-0800 G 161 810-1000 G 161 810-1000 G 161 810-2100 W 161 810-4000 G 162 110 G 162 110-0100 G 162 110-0150 G 162 110-0160 G 162 110-0200 S	Ground rod,copper clad, 3.0 m long, 20 mm diameter Ground plate,copper 600 x 600 mm Groundwire,bare copper, 95 mm2 Groundwire,bare copper, 150 mm2 Groundwire,bare copper, 300 mm2 Water pipe ground clamps,heavy duty bronze, 32 mm to 50 mm diameter Ground rod Clamp 20 mm to 240 mm2 bare copper conductor BOXES & WIRING DEVICES BOXES OUTLET BOXES OUTLET BOXES Outlet Box, pressed steel,octagon, 100 mm, 40 mm deep Octagonal box extension cover, 100 mm, 40 mm deep Outlet Box,pressed steel,square, 100 mm, 40 mm deep Outlet Box,pressed steel,square, 100 mm, 54 mm deep	•	562.0 24.2 55.0 102.0 57.0 153.7
161 810-0200 G 161 810-0800 G 161 810-1300 G 161 810-2100 W 161 810-2100 W 161 810-4000 G 162 110 G 162 110-0100 G 162 110-0150 G 162 110-0160 G 162 110-0200 S	Ground plate,copper 600 x 600 mm Groundwire,bare copper, 95 mm2 Groundwire,bare copper, 150 mm2 Groundwire,bare copper, 300 mm2 Water pipe ground clamps,heavy duty bronze, 32 mm to 50 mm diameter Ground rod Clamp 20 mm to 240 mm2 bare copper conductor BOXES & WIRING DEVICES BOXES OUTLET BOXES Outlet Box, pressed steel,octagon, 100 mm, 40 mm deep Octagonal box extension cover, 100 mm, 40 mm deep Outlet Box,pressed steel,square, 100 mm, 40 mm deep Outlet Box,pressed steel,square, 100 mm, 54 mm deep	•	562.0 24.2 55.0 102.0 57.0 153.7
161 810-0200 G 161 810-0800 G 161 810-1300 G 161 810-2100 W 161 810-2100 W 161 810-4000 G 162 110 G 162 110-0100 G 162 110-0150 G 162 110-0160 G 162 110-0200 S	Ground plate,copper 600 x 600 mm Groundwire,bare copper, 95 mm2 Groundwire,bare copper, 150 mm2 Groundwire,bare copper, 300 mm2 Water pipe ground clamps,heavy duty bronze, 32 mm to 50 mm diameter Ground rod Clamp 20 mm to 240 mm2 bare copper conductor BOXES & WIRING DEVICES BOXES OUTLET BOXES Outlet Box, pressed steel,octagon, 100 mm, 40 mm deep Octagonal box extension cover, 100 mm, 40 mm deep Outlet Box,pressed steel,square, 100 mm, 40 mm deep Outlet Box,pressed steel,square, 100 mm, 54 mm deep	EA	24.2 55.0 102.0 57.0 153.7
161 810-1000 G 161 810-1300 G 161 810-2100 W 161 810-4000 G 162 100 E 162 110 G 162 110-0100 G 162 110-0150 G 162 110-0160 G 162 110-0200 S	Groundwire,bare copper, 150 mm2 Groundwire,bare copper, 300 mm2 Water pipe ground clamps,heavy duty bronze, 32 mm to 50 mm diameter Ground rod Clamp 20 mm to 240 mm2 bare copper conductor BOXES & WIRING DEVICES BOXES OUTLET BOXES Outlet Box, pressed steel,octagon, 100 mm, 40 mm deep Octagonal box extension cover, 100 mm, 40 mm deep Outlet Box,pressed steel,square, 100 mm, 40 mm deep Outlet Box,pressed steel,square, 100 mm, 54 mm deep	EA	55.0 102.0 57.0 153.7
161 810-1300 G 161 810-2100 W 161 810-4000 G 162 162 100 162 110 162 110-0020 G 162 110-0150 G 162 110-0160 G 162 110-0200 S	Aroundwire, bare copper, 300 mm2 Water pipe ground clamps, heavy duty bronze, 32 mm to 50 mm diameter Ground rod Clamp 20 mm to 240 mm2 bare copper conductor BOXES & WIRING DEVICES BOXES OUTLET BOXES Outlet Box, pressed steel, octagon, 100 mm, 40 mm deep Octagonal box extension cover, 100 mm, 40 mm deep Outlet Box, pressed steel, square, 100 mm, 40 mm deep Outlet Box, pressed steel, square, 100 mm, 54 mm deep	EA	102.0 57.0 153.0 15.0
161 810-2100 W 161 810-4000 G 162 162 100 162 110 162 110-0020 G 162 110-0150 G 162 110-0160 G 162 110-0200 S	Water pipe ground clamps,heavy duty bronze, 32 mm to 50 mm diameter Ground rod Clamp 20 mm to 240 mm2 bare copper conductor BOXES & WIRING DEVICES BOXES OUTLET BOXES Outlet Box, pressed steel,octagon, 100 mm, 40 mm deep Octagonal box extension cover, 100 mm, 40 mm deep Outlet Box,pressed steel,square, 100 mm, 40 mm deep Outlet Box,pressed steel,square, 100 mm, 40 mm deep Outlet Box,pressed steel,square, 100 mm, 54 mm deep	EA	57.0 153.1 15.0 15.0
161 810-4000 G 162 100 E 162 110 C 162 110-0020 C 162 110-0150 C 162 110-0160 C 162 110-0200 S	BOXES & WIRING DEVICES BOXES OUTLET BOXES Outlet Box, pressed steel, octagon, 100 mm, 40 mm deep Octagonal box extension cover, 100 mm, 40 mm deep Outlet Box, pressed steel, square, 100 mm, 40 mm deep Outlet Box, pressed steel, square, 100 mm, 40 mm deep Outlet Box, pressed steel, square, 100 mm, 40 mm deep Outlet Box, pressed steel, square, 100 mm, 54 mm deep	EA	153.7 15.0
162 100 E 62 110 C 162 110-0100 C 162 110-0150 C 162 110-0160 C 162 110-0200 S	BOXES & WIRING DEVICES BOXES OUTLET BOXES Outlet Box, pressed steel,octagon, 100 mm, 40 mm deep Octagonal box extension cover, 100 mm, 40 mm deep Outlet Box,pressed steel,square, 100 mm, 40 mm deep Outlet Box,pressed steel,square, 100 mm, 54 mm deep	EA	15.0 15.0
162 100 E 162 110 C 162 110-0020 C 162 110-0100 C 162 110-0150 C 162 110-0160 C 162 110-0200 S	Dutlet Box, pressed steel, octagon, 100 mm, 40 mm deep Doctagonal box extension cover, 100 mm, 40 mm deep Dutlet Box, pressed steel, square, 100 mm, 40 mm deep Dutlet Box, pressed steel, square, 100 mm, 54 mm deep	EA	15.0
162 110 C 162 110-0020 C 162 110-0100 C 162 110-0150 C 162 110-0160 C 162 110-0200 S	OUTLET BOXES Dutlet Box, pressed steel,octagon, 100 mm, 40 mm deep Dotagonal box extension cover, 100 mm, 40 mm deep Dutlet Box,pressed steel,square, 100 mm, 40 mm deep Dutlet Box,pressed steel,square, 100 mm, 54 mm deep	EA	15.0
162 110-0020 C 162 110-0100 C 162 110-0150 C 162 110-0160 C 162 110-0200 S	Outlet Box, pressed steel,octagon, 100 mm, 40 mm deep Octagonal box extension cover, 100 mm, 40 mm deep Outlet Box,pressed steel,square, 100 mm, 40 mm deep Outlet Box,pressed steel,square, 100 mm, 54 mm deep	EA	15.0
162 110-0100 C 162 110-0150 C 162 110-0160 C 162 110-0200 S	Octagonal box extension cover, 100 mm, 40 mm deep Outlet Box,pressed steel,square, 100 mm, 40 mm deep Outlet Box,pressed steel,square, 100 mm, 54 mm deep	EA	15.0
162 110-0150 C 162 110-0160 C 162 110-0200 S	Outlet Box,pressed steel,square, 100 mm, 40 mm deep Outlet Box,pressed steel,square, 100 mm, 54 mm deep		
162 110-0160 C	Outlet Box,pressed steel,square, 100 mm, 54 mm deep		15.0
162 110-0200 S			
162 110-0200 S			20.0
100 110 0000 0	Square outlet Box extension 100 mm, 40 mm deep		20.
162 110-0300[S	Square outlet Box plaster ring cover 100 mm, 20 mm raise		20.0
162 110-0650 C	Outlet Box,pressed steel,switch box "utility box" 100 mm x 50 mm, 40 mm deep	.	20.
162 130 F	PULL BOXES & CABINETS:		
162 130-0200 F	Pull box,sheet metal,NEMA 1, 200 mm x 200 mm, 100 mm deep	EA	200.0
	Pull box,sheet metal,NEMA 1, 400 mm x 500 mm, 200 mm deep		300.0
	Hinged cabinet, sheet metal, NEMA 3R; 300 mm x 400 mm, 150 mm deep.		150.0
162 130-1400 H	Hinged cabinet, sheet metal, NEMA 1; 600 mm x 900 mm, 200 mm deep.		400.0
162 130-2200 H	Hinged cabinet, sheet metal, NEMA 3R; 800 mm x 600 mm, 300 mm deep.		250.0
	Box/Cabinets,Cast Iron,surface mounted,NEMA 4,Weatherproof		700.
162 1305 44001	Box/Cabinets, Cast Iron, surface mounted, NEMA 4, Weatherproof		1,500.
	WP" 600 x 600 mm, 250 mm deep. WIRING DEVICES	V	1,000.
	LOW VOLTAGE SWITCHING:		
4 DOMESTIC CONTRACTOR FERRITARY	Relays,120 V or 220 V standard	EA	150.
	Fransformer 120 or 220V to 240V	,,	673.
	WIRING DEVICES:		1
The state of the s	ighting switch,toggle,single pole, 15A	EA	8.3
	Lighting switch, toggle, single pole, 10A		80.3
	ighting switch,lock handle,single pole, 20A		12.
	Lighting switch,toggle, 3 Way, 15A		11.0
	ighting switch,toggle, 4 Way, 15A	- 50-1	37.5
	ighting switch,toggle,quit type, 1 pole, 2 throw,center off, 15A	3 35-6	15.0
	Dimmer switch,120V,incandescent, 1 pole, 600 watt		33.0
162 320-1700	Dimmer switch, 120V, incandescent, 3 way, 600 watt		45.0
	Dimmer switch, 120V, incandescent, 1 pole, 1500 watt		138.
162 320-2130 D	Dimmer switch,120V,fluorescent, 1 pole, 1500 watt		138.
162 320-2160 E	Explosion proof toggle switch, 1P- 20 A	31 13	384.
	Receptacle, single, 20 A		13.
162 320-2190 F	Receptacle, single, 30 A	231	750.
162 320-2370 P			750.
	Receptacle, duplex,120 V, grounded, 20 A Receptacle, ground fault interrupting, 15 A	16 - C	6. 59.

INDO	N 16: ELECTRICAL		a de la come
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER
162 320-2600	Wall plates, stainless steel, 1 gang		4.1
162 320-3000	Wall plates, stainless steel, 3 gang Wall plates, Plastic, 1 gang		28.3
162 320-3110	Wall plates, Prastic, 1 gang Wall plates, Brushed brass, 1 gang		0.7
162 320-3660	Receptacle, duplex,250 V, grounded, 20 A		1.0 23.6
162 320-4160	Receptacle, locking, 250 V, grounded, 20 A		62.7
162 320-4840	Receptacle, waterproof, 250 V, grounded, 20 A	*	42.8
163 110	MOTOR CONTROL CENTERS:		
163 110-0200	Manufactured structure consisting combination of motor circuit protector &starter full voltage non-reversed "FVNR", with control transformer; 10 HP size 1; of 300 mm height	EA	2,100.0
163 110-0300	Manufactured structure consisting combination of motor circuit protector &starter full voltage non-reversed "FVNR", with control transformer; 50 HP size 1; of 610 mm height		5,540.0
163	MOTORS, STARTERS, BOARDS & SWITCHES		
163 100	STARTERS & CONTROLS		
	MOTOR STARTERS & CONTROLS:		
163 130-0100	Magnetic motor starters full voltage non-reversed "FVNR" W/enclosure & heaters, 220V, 5 HP	EA	2,100.00
163 200	BOARDS		
163 205	CIRCUIT BREAKERS (in enclosure):		
163 205-0400	Circuit Breakers in NEMA 1 enclosure;600V, 3 pole, 100A	EA	570.00
163 205-0700	Circuit Breakers in NEMA 1 enclosure;600V, 3 pole, 400A		1,990.00
	METER CENTERS:		
	Meter board, fiberglass, rainproof, 3P, 4W, 127/227 V, consisting, Molded case C.B.& meter 100 A	EA	3,352.00
(Meter board,fiberglass,rainproof, 3P, 4W, 127/227 V, consisting, Molded case C.B.& meter 160 A		3,249.00
100 2 10 2004	Meter board, fiberglass, rainproof, 3P, 4W, 127/227 V, consisting, Molded case C.B.& meter 200 A		3,721.00
163 240-2610	Meter board,fiberglass,rainproof, 3P, 4W, 127/227 V, consisting, main lugs 300 A & 3 each molded case C.B.& meter 100 A	↓	4,863.00
63 245	PANELBOARDS (Commercial use)		
	Panelboard 2 Phase 3 Wire,100 Amps Main lugs only (M.L.O); 127/220 V,including 18 branches,bolt-on type circuit breakers, 1P-20A	EA	8,290.00
	Panelboard 2 Phase 3 Wire, 225 Amps Main lugs only (M.L.O); 127/220 V,including 24 branches,bolt-on type circuit breakers, 1P-20A		11,211.00
130 2 10 ,07 00	Panelboard 3 Phase 4 Wire,100 Amps Main lugs only (M.L.O); 127/220 V,including 24 branches,bolt-on type circuit breakers, 1P-20A		11,058.00
1000	Panelboard 3 Phase 4 Wire, 225 Amps Main lugs only (M.L.O); 127/220 I,including 42 branches,bolt-on type circuit breakers, 1P-20A		19,370.00
V	Panelboard 3 Phase 4 Wire,100 Amps Main lugs only (M.L.O); 220/380 / including 12 branches,bolt-on type circuit breakers, 1P-20A		5,890.00
V	Panelboard 3 Phase 4 Wire,225 Amps Main lugs only (M.L.O); 220/380 /,including 24 branches,bolt-on type circuit breakers, 1P-20A	31 45	11,365.00
v	Panelboard 2 Phase 3 Wire,100 Amps Main Circuit Breaker; MCCB, 127/220 /,including 24 branches,bolt-on type circuit breakers, 1P-20A	~	11,561.00
V	Panelboard 2 Phase 3 Wire, 225 Amps Main Circuit Breaker; MCCB, 127/220 including 30 branches, bolt-on type circuit breakers, 1P-20A		15,229.00
V	Panelboard 2 Phase 3 Wire, 400 Amps Main Circuit Breaker; MCCB, 127/220 7,including 42 branches,bolt-on type circuit breakers, 1P-20A	v	21,814.00
V	Panelboard 3 Phase 4 Wire,100 Amps Main Circuit Breaker; MCCB, 127/220 Unicluding 24 branches, bolt-on type circuit breakers, 1P-20A		11,638.00
163 245-2200 V	Panelboard 3 Phase 4 Wire, 225 Amps Main Circuit Breaker; MCCB, 127/220 7.including 32 branches, bolt-on type circuit breakers, 1P-20A	EA	16,202.00

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CODE	ITEM DESCRIPTION	UNIT	COST PER
163 245-2300	Panelboard 3 Phase 4 Wire, 400 Amps Main Circuit Breaker; MCCB, 127/220 V,including 42 branches, bolt-on type circuit breakers, 1P-20A		21,987.0
163 245-2350	Panelboard 3 Phase 4 Wire, 600 Amps Main Circuit Breaker; MCCB, 127/220 V,including 42 branches,bolt-on type circuit breakers, 1P-20A		23,491.0
163 245-2550	Panelboard 3 Phase 4 Wire, 100 Amps Main Circuit Breaker; MCCB, 220/380 V, including 30 branches, bolt-on type circuit breakers, 1P-20A		14,096.0
163 245-2600	Panelboard 3 Phase 4 Wire, 225 Amps Main Circuit Breaker; MCCB, 220/380 V, including 30 branches, bolt-on type circuit breakers, 1P-20A		15,383.0
163 245-2650	Panelboard 3 Phase 4 Wire , 225 Amps Main Circuit Breaker; MCCB , 220/380 V ,including 42 branches,bolt-on type circuit breakers, 1P-20A	4	20,930.0
163 250	PANELBOARD & LOAD CENTER CIRCUIT BREAKERS:		
163 250-0400	Circuit Breaker,bolt-on type,10 000 Amp.Interrupting Capacity,,2 Pole, 15 to 50A	EA	40.00
163 250-0900	Circuit Breaker,bolt-on type,10 000 Amp.Interrupting Capacity, 3 Pole,100A		184.00
163 250-0970	Circuit Breaker, bolt-on type, 14 000 Amp. Interrupting Capacity, 1 Pole, 15 to 30A		245.00
163 250-1000	Circuit Breaker,bolt-on type,22 000 Amp.Interrupting Capacity, 2 Pole,70 to 225A		790.00
	Circuit Breaker,bolt-on type,22 000 Amp.Interrupting Capacity, 3 Pole, 70 to 225A	+	907.00
163 260	SWITCHBOARDS:		
163 260-2000	Switchboard incoming main service section,copper bus bars, including CT's with compartments and Main Air Circuit Breaker drawout Type;127/220 V, 3 Phase 4 Wire, 1000 Amp.	EA	34,200.00
163 260-2300	Switchboard incoming main service section,copper bus bars, including CT's with compartments and Main Air Circuit Breaker drawout Type;127/220 V, 3 Phase 4 Wire, 2000 Amp.	EA	51,568.00
163 260-2500	Switchboard incoming main service section,copper bus bars, including CT's with compartments and Main Air Circuit Breaker drawout Type;127/220 V, 3 Phase 4 Wire, 3000 Amp.	EA	72,335.00
163 260-5000	Switchboard incoming main service section,copper bus bars, including CT's with compartments and Main Molded Case Circuit Breaker (MCCB), 127/220 V, 3 Phase 4 Wire, 1200 Amp.		36,225.00
163 260-5100	Switchboard incoming main service section,copper bus bars, including CT's with compartments and Main Molded Case Circuit Breaker (MCCB), 127/220 V, 3 Phase 4 Wire, 2000 Amp.		51,865.00
163 260-5200	Switchboard incoming main service section, copper bus bars, including CT's with compartments and Main Molded Case Circuit Breaker (MCCB), 127/220 V, 3 Phase 4 Wire, 2500 Amp.		60,720.00
163 264	SWITCHBOARDS, DISTRIBUTION SECTION:		
163 264-0400	Switchboard, distribution section, copper bus bars, without breakers; 127/220 V or 220/380 V, 3 Phase, 4 Wire, 1000 A.	EA	4,062.00
163 264-0600	Switchboard, distribution section, copper bus bars, without breakers; 127/220 V or 220/380 V, 3 Phase, 4 Wire, 1600 A.	1.77.4	4,458.00
163 264-0700	Switchboard, distribution section, copper bus bars, without breakers; 127/220 V or 220/380 V, 3 Phase, 4 Wire, 2000 A.		5,646.00
163 264-0800	Switchboard, distribution section, copper bus bars, without breakers; 127/220 V or 220/380 V, 3 Phase, 4 Wire, 2500 A.	EA	5,844.00
163 266	SWITCHBOARDS, FEEDER SECTION:	The state of	EW SELEC
	Circuit breakers frame upto 100A, 3 pole	EA	485.00
	Circuit breakers frame 225 A, 3 pole	7	1,350.00
	Circuit breakers frame 400 A, 3 pole Circuit breakers frame 600 A, 3 pole	-	2,070.00
	Circuit breakers frame 600 A, 3 pole Circuit breakers frame 1200 A, 3 pole		7,910.00
	Fused switch 100/100A, 2 pole	1	14.00
Control of the Contro	SWITCHBOARD INSTRUMENTS:		1,7.00

RMSR	N 16:ELECTRICAL	A	and the same party
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER
163 268-0200	Switchboard instruments 3 phase, 4-wire, AC indicating, voltmeter & switch		397.0
163 300	SWITCHES		
163 310	CONTACTORS:		
	Lighting contactor, electrically held, 600 V, 3P - 30 A	EA	745.0
	Lighting contactor, electrically held, 600 V, 3P - 100 A		2,811.0
	Lighting contactor, electrically held, 600 V, 3P - 200 A	+	5,263.0
163 360	SAFETY SWITCHES:		
163 360-0300	Safety switch, general duty, 220 V, 3P-100 A,fused. Safety switch, general duty, 220 V, 3P-400 A,fused.	EA	1,675.0
163 360-0600	Safety switch, general duty, 220 V, 3P-600 A, fused.		8,268.0
163 360-3900	Safety switch, heavy duty, 220 V, 3P-600 A,fused.	+	11,000.0
163 500	MOTORS:		
163 520	MOTORS:		
163 520-0250	Motors 230, 60 HZ Dripproof,1800 RPM, 5 HP	EA	2,865.0
163 520-0350	Motors 230, 60 HZ Dripproof,1800 RPM, 10 HP	,,	8,420.0
164	TRANSFORMERS & BUS DUCTS		
164 100	TRANSFORMERS		
164 120	DRY TYPE TRANSFORMER:	,	
164 120-2190	Dry type transformer,single phase, 220 V Primary 120 V secondary,nonvent, 15 kVA	EA	6,000.0
164 120-2210	Dry type transformer, single phase, 220V Primary 120V secondary, nonvent, 50 kVA		10,000.0
164 120-3100	Dry type transformer, 3 phase, 220/380 V primary,127/220 V secondary,ventilated,15 kVA		10,000.0
164 120-4100	Dry type transformer, 3 phase, 220/380 V primary,127/220 V secondary,ventilated,150 kVA		25,000.0
164 120-5200	Dry type transformer, 3 phase,13800 V primary,127/220 V or 220/380 V secondary,500 kVA		80,000.0
164 120-5400	Dry type transformer, 3 phase,13800 V primary,127/220 V or 220/380 V secondary,1000 kVA	+	110,000.0
164 120-5500	Dry type transformer, 3 phase,13800 V primary,127/220 V or 220/380 V secondary,1500 kVA	EA	138,000.0
164 120-5600	Dry type transformer, 3 phase,13800 V primary,127/220 V or 220/380 V secondary,2000 kVA	EA	150,000.0
64 160	OIL FILLED TRANSFORMER:	name and	
164 160-0200	Oil filled transformer pad mounted, Primary: Delta or Star, 13.8 kV, With taps; 127/220 or 220/380V Secondary 3 Phase, 300 KVA	EA	40,000.0
164 160-0300	Oil filled transformer pad mounted, Primary: Delta or Star, 13.8 kV, With taps; 127/220 or 220/380V Secondary 3 Phase, 500 KVA		58,000.0
164 160-0500	Oil filled transformer pad mounted, Primary: Delta or Star, 13.8 kV, With taps; 127/220 or 220/380V Secondary 3 Phase, 1000 KVA Oil filled transformer pad mounted, Primary: Delta or Star, 13.8 kV, With taps;	0	72,000.0
164 160-0700	127/220 or 220/380V Secondary 3 Phase, 2000 KVA	_	110,000.0
64 200	BUS DUCTS/BUSWAYS		
64 220	COPPER BUS DUCT:	100 12 1	
64 220-2510 64 220-2550	Copper bus duct plug-in indoor, 3 pole, 4-wire, straight section, 2000A	LM	3,221.6
64 220-2800	Copper bus duct plug-in indoor, 3 pole, 4-wire, straight section, 3000A Copper bus duct plug-in outdoor "WP", 3 pole, 4-wire feeder section, 2000A		4,938.0
64 220-3700	Copper bus duct accessories; Elbow, 2000A		3,265.3 748.7
64 220-3850	Copper bus duct accessories; Elbow, 3000A		996.8
64 220-4500	Copper bus duct accessories; End Box, 2000A		2,727.7
64 220-4600	Copper bus duct accessories; End Box, 3000A		4,557.2
64 220-5500 64 220-6300	Copper bus duct accessories; Cable tap box, 2000A Copper bus duct accessories; Switchboard stub, 2000A		3,774.9 633.9

经验的证据 医动物性缺乏	N 16: ELECTRICAL	11.00-28.012.12	inger alle de l'erred L
CODE	ITEM DESCRIPTION	UNIT	COST PER
64 220-6350	Copper bus duct accessories; Switchboard stub, 3000A		1,021.4
64 220-6950	Copper bus duct accessories; Tee fitting, 2000A		624.9
64 220-7400	Copper bus duct accessories; Plug-in switch, 100A		1,209.0
64 220-8100	Copper bus duct accessories; Plug-in Molded Case Circuit Breaker (MCCB), 70A to 100A.		1,209.0
64 220-8200	Copper bus duct accessories; Plug-in Molded Case Circuit Breaker (MCCB), 150A to 225A.		1,725.9
64 220-8400	Copper bus duct accessories; Plug-in Molded Case Circuit Breaker (MCCB), 500A to 600A.	<u> </u>	5,716.4
165	POWER SYSTEMS & CAPACITORS		
165 100	POWER SYSTEMS		
165 120	GENERATOR SET:		
165 120-2500	Generator set, gas or gasoline operated, includes battery, charger, muffler & transfer switch, daily fuel tank, 3 phase, 4-wire up to 220/380V; Capacity 150KW	EA	111,450.0
65 120-2700	Generator set, gas or gasoline operated, includes battery, charger, muffler & transfer switch, daily fuel tank, 3 phase, 4-wire up to 220/380V; Capacity 300KW		200,250.0
65 120-3000	Generator set, gas or gasoline operated, includes battery, charger, muffler & transfer switch, daily fuel tank, 3 phase, 4-wire up to 220/380V; Capacity 600KW		378,250.0
65 120-3100	Generator set, gas or gasoline operated, includes battery, charger, muffler & transfer switch, daily fuel tank, 3 phase, 4-wire up to 220/380V; Capacity 900KW	<u> </u>	623,250.0
65 120-3200	Generator set, gas or gasoline operated, includes battery, charger, muffler & transfer switch, daily fuel tank, 3 phase, 4-wire up to 220/380V; Capacity 1200KW	EA	1,009,250.0
165 125	TRANSFER SWITCHES:		
	Automatic transfer switch in NEMA 1 enclosure, 400 A	EA	16,000.0
	Automatic transfer switch in NEMA 1 enclosure, 1000 A		34,000.0
	Automatic transfer switch in NEMA 1 enclosure, 1600 A		39,000.0
	Manual transfer switch in NEMA 1 enclosure, 600 A		20,000.0
65 200	CAPACITORS		
65 210	CAPACITORS:		
165 210-0200	Capacitor indoor, 220V,single Phase , 5.0 KVAR	EA	460.0
	Capacitor indoor, 220V, single Phase 25 KVAR		3,500.0
165 210-1100	Capacitor indoor, 220V, 3 Phase 25 KVAR		5,000.0
165 210-1350	Capacitor indoor, 380V, single Phase 30 KVAR	N. A.	7,000.0
165 210-1450	Capacitor indoor, 380V, 3 Phase 50 KVAR	*	10,500.0
166	LIGHTING		
66 100	LIGHTING	agent Age	1 1 1 1 1 1 1
66 110	EXIT AND EMERGENCY LIGHTING:		777
166 110-0080	Exit lighting fixture, ceiling or wall mount, incandescent, single face.	EA	176.0
	Exit lighting fixture, ceiling or wall mount, incandescent, double face.	Type Line.	187.0
166 110-0900	Emergency lighting fixture, self-contained fluorescent lamp pack	414	908.0
66 115	EXTERIOR FIXTURES:		124 64 50
	Exterior lighting fixture with lamp, floodlight, quartz, 500W, wall mounted	EA	194.0
	Exterior lighting fixture with pack, discharge lamp up to 250 watt.		1,071.0
166 115-1000	Exterior fixture, floodlights with ballast and lamp, pole mounted, pole not included Mercury Vapor, 250W	73	1,026.0
166 115-1200	Exterior fixture, floodlights with ballast and lamp, pole mounted, pole not included Mercury Vapor, 400W	1	1,098.0
166 115-1950	Exterior fixture, floodlights with ballast and lamp, pole mounted, pole not included Metal Halide (MH), or High Pressure Sodium (HPS) 175W	EA	696.0
	Exterior fixture, floodlights with ballast and lamp, pole mounted, pole not included	100	625.0

ACTION OF THE PROPERTY.	N 16 : ELECTRICAL	distributed and	32 4 2 1 S 1 A 1
CODE	ITEM DESCRIPTION	UNIT	COST PE UNIT
	Exterior fixture, roadway area luminare, low pressure sodium, 400W		749
166 115-2725	Exterior fixture, roadway area luminare, Mercury Vapor, 400W		691.
	Exterior light pole bracket arms, 1 arm, steel		50.
	Exterior light pole bracket arms, 2 arms, aluminum		70
166 115-4800	Exterior light pole, steel, anchor base, 9.0 meter high	*	1,020
166 115-5200	Exterior light pole, steel, anchor base, 12 meter high	EA	1,480
166 115-6500	Exterior, bollard light, including mercury fixture 175 watt, lamp, ballast & polycarbonate lens, 1.00 meter high		1,368
166 115-7100	Exterior, bollard light, including sodium fixture up to 150 watt, lamp, ballast & polycarbonate lens, 1.00 meter high		1,368
166 115-7400	Exterior landscape recessed up-light, including housing, ballast, transformer and reflector, mercury 100 watt.		1,484
166 115-7460	Exterior landscape recessed up-light, including housing, ballast, transformer and reflector, Quartz 500 watt	1	1,484
66 130	INTERIOR LIGHTING FIXTURES (ILF)	1,	At a constant of the state of t
166 130-0200	Interior fluorescent fixture recessed mounted, with lens 300 x 1200 mm, 2 x 40 watt	EA	272
166 130-0600	Interior fluorescent fixture recessed mounted, with lens 600 x 1200 mm,4 x 40 watt		406
166 130-1100	Interior fluorescent fixture surface mounted, with lens & latched door frame, 300 x 1200 mm, 2 x 40 W		266
166 130-1500	Interior fluorescent fixture surface mounted, with lens & latched door frame, 600 x 1200 mm, 4 x 40 W		400
166 130-2200	Interior Strip fluorescent fixture, surface mounted, 1200 mm long, 2 x 40 Watt, rapid start.		105
166 130-2800	Interior Strip fluorescent fixture, surface mounted, 1200 mm long, 2 x 60 Watt, rapid start.		336
166 130-3100	Interior pendent fluorescent fixture,industrial with white porcelain enamel open reflector, 1200 mm long, 2 x 40 Watt rapid start.		192
166 130-3470	Interior fluorescent fixture troffer,air handling type, 600 x 1200 mm, 4 x 40 Watt rapid start,complete with 150 mm diameter air connector.		697
166 130-3700	Interior Mercury Vapor lighting fixture,integral ballast,ceiling recess mounted, prismatic glass lens,floating door, 600 x 600 mm, 250 W Deluxe white lamp.		1,158
	Interior Mercury Vapor lighting fixture,integral ballast,ceiling recess mounted, prismatic glass lens,floating door, 600 x 600 mm, 400 W Deluxe white lamp.		1,158
	Interior Mercury Vapor fixture, High bay, Aluminium reflector, integral ballast, 400 W Deluxe white lamp.		
166 130-4450	Indoor incandescent fixture, high hat can,round alzak reflector 100 W		666
166 130-4600	Indoor incandescent fixture, square glass lens with metal trim,100 W		328. 328.
166 130-4700	Indoor incandescent fixture, square glass lens with metal trim, 100 W		785.
166 130-4920	Indoor incandescent fixture, ceiling /wall mounted,metal cylinder,150 W		453
166 130-5400	Indoor incandescent fixture, ceiling, surface mounted, opal glass drum, 250 mm, 2 x 60 watt lamp.	EA	504.
166 130-5500	Indoor incandescent fixture, ceiling, surface mounted, opal glass drum, 300 mm, 4 x 60 watt lamp.	1. 2.5	. 592.
166 130-6010	Indoor incandescent fixture, vapor tight, ceiling mounted, 200 Watt.		924.
166 130-6100	Indoor, Vapor tight fluorescent fixture, surface mounted, 1200 mm long, rapid start, 2 x 40Watt.		776.
100 130-0200	Indoor, Vapor tight Mercury Vapor fixture, integral ballast, surface mounted, 175 Watt.	- +	542.
166 130-6850	Indoor, Vandalproof fluorescent fixture, surface mounted, 2 x 40 Watt.		216.
	Indoor, Vandalproof incandescent fixture, surface mounted, 1 x 150 Watt.		111.

CSI			COST PER
CODE	ITEM DESCRIPTION	UNIT	UNIT
168 100	SPECIAL SYSTEMS		
168 105	CLOCKS:		
168 110-0080	Clocks, 300mm diameter, single face (12')	EA	600.00
	Clocks, 300mm diameter,double face (12')	,,	1,500.00
168 110	CLOCK SYSTEMS:		Secretaria de la compansión de la compan
168 110-0100	Clock system, master controller	EA	18,000.00
168 110-0105	Master synchronizing programmable clock, microquartz, 230V/50/60Hz w/4-Prog.ch.	EA	11,000.00
168 120	DETECTION SYSTEMS:		
168 120-3600	Detection system, for fire, sprinkler & standpipe alarm, control panel, 4 zone, with charger & batteries.	EA	10,000.00
168 120-4000	Detection system, for fire, sprinkler & standpipe alarm, control panel, 12 zone, with charger & batteries.		15,000.00
	Fire alarm, break glass alarm switch	1	282.00
	Fire alarm, alarm bell	-	132.00
	Fire alarm heat detector, rate of rise		125.00
	Fire alarm smoke detector, ceiling type Fire alarm smoke detector, duct type	+	843.00
101700000000000000000000000000000000000	Fire alarm, remote annunciator, 12 zone lamp	++	2,000.00
168 125	DOORBELL SYSTEM:		
	Doorbell system including transformer,button & signal 150 mm bell	EA	850.00
168 125-0200	Doorbell system including transformer, button & signal buzzer	11	1,100.00
168 145	NURSE CALL SYSTEMS:		
	Nurse Call Systems, single bedside call station	EA	350.00
	Nurse Call Systems, emergency call station		231.00
	Nurse Call Systems,pillow speaker		9,215.00
	Nurse Call Systems,lights,corridor,dome		2,800.00
	Nurse Call Systems,master control station for 20 stations		2,000.00
168 155	SOUND SYSTEM:	EA	2,000.00
	Sound system, Microphone Sound system, speaker, ceiling or wall	+ 1	140.00
168 155-0400	Ceiling mounted loud speakers, RMS Power=6W, 3W, 1.5W, 0.75W		101.00
	Sound system antenna, AM/FM		1,524.00
	Sound system volume control		210.00
	Sound system amplifier, 250W		4,000.00
	Power amplifier-RMS Power=360, Max Power=480W		3,474.00
	Sound system cabinets	+ + -	3,000.00
	Emergency call system, 12 zones, annunciator TELEPHONE SYSTEM:		
168 157		T EA	120.00
	Telephone cabinet, indoor 10 pair Telephone cabinet, indoor 25 pair	 	200.00
	Telephone cabinet, indoor 50 pair		375.00
	Telephone cabinet, indoor 100 pair	- 0	580.00
	Telephone cabinet, indoor 200 pair		1,200.00
	Telephone cabinet, outdoor 10 pair		300.00
	Telephone cabinet, outdoor 25 pair	++-	475.00
	Telephone cabinet, outdoor 50 pair Telephone cabinet, outdoor 100 pair	1	950.00
	Telephone cabinet, outdoor 100 pair	1	1,600.00
	Telephone cable, 2 pair	LM	296.00
	Telephone cable, 4 pair		486.00
168 157-0540	Telephone cable, 6 pair	+	762.00
	Telephone cable, 15 pair	LM	736,00 2,952.00
	Telephone cable, 25 pair	+	5,667.00
	Telephone cable, 50 pair		4,140.00
100 157-0620	Telephone cable, 80 pair		10,714.00

DIVISIO	N 16: ELECTRICAL		
CSI CODE	ITEM DESCRIPTION	UNIT	COST PER UNIT
168 160	T.V. SYSTEMS:		
168 160-0200	Master TV antenna system, VHF reception, 30 outlets	OUTLET	13,165.00
168 160-0800	Master TV antenna system, VHF& UHF reception & distribution, 12 outlets	"	4,916.00
168 160-2000	Closed circuit TV system, surveillance, one station (camera & monitor)	EA	4,010.00
169	POWER TRANSMISSION & DISTRIBL	JTION	
169 100	POWER TRANSMISSION & DISTRIBUTION		
169 130	OVERHEAD LINE CONDUCTORS & DEVICES:		
169 130-0150	Conductors,120 mm2	LM	47.00
169 130-0160	Conductors, 300 mm2	LM	120.00

Metric Units in the Construction Trades

The metric units used in the construction trades are as follows: The terms length inculdes all linear measurements (That is, length, width, height, thicness, diameter, and circumference).

	Quantity	Unit	Symbol
Surveying	length	kilometer, meter	km, m
	area	square kilometer hectare (10 000 m²) square meter	km² ha m²
	plane angle	degree (non-metric) minute (non-metric) second (non-metric)	0
Excavating	length	meter, millimeter	m, mm
	volume	cubic meter	m ²
Trucking	distance	kilometer	km
	volume	cubic meter	m ³
	mass	metric ton (1 000 kg)	t
Paving	length	meter, millimeter	m, mm
	area	square meter	m ²
Concrete	length	meter, millimeter	m, mm
	area	square meter	m ²
	volume	cubic meter	m ³
	temperature	degree celsius	°C
	water capacity	liter (1 000 cm ³)	L
	mass (weight)	kilogram, gram	kg, g
	cross- sectional area	square millimeter	mm ²
Masonry	length	meter, millimeter	m, mm
Protection of the Protection o	area	square meter	m ²
	mortar volume	cubic meter	m ³
Steel	length	meter, millimeter	m, mm
	mass	metric ton (1 000 kg) kilogram, gram	t kg, g
	pressure / stress	pascal kilopascal megapascal	Pa kPa MPa
Carpentry	length	meter, millimeter	m, mm
Plastering	length	meter, millimeter	m, mm
	area	square meter	m ²
	water capacity	liter (1 000 cm ³)	L
Glazing	length	meter, millimeter	m, mm
	area	square meter	m ²
Painting	length	meter, millimeter	m, mm
9	area	square meter	m ²
	capacity	liter (1 000 cm ³) milliliter (cm ³)	L mL

	Quantity	Unit	Symbo
Roofing	length	meter, millimeter	m, mm
	area	square meter	m²
	slope	meter, millimeter	m, mm
Plumbing	length	meter, millimeter	m, mm
5 8	mass	kilogram, gram	kg, g
	capacity	liter (1 000 cm ³)	L
	pressure	kilopascal	kPa
Drainage	length	meter, millimeter	m, mm
	area	hectare (10 000 m ²) square meter	ha m²
	volume	cubic meter	m ³
	slope	millimeter/meter	mm/m
HVAC	length	meter, millimeter	m. mm
3.55	volume	cubic meter	m ³
	capacity	liter (1 000 cm ³)	L
	airflow	meter/second	m/s
100	Congression was a second	cubic meter/second	m³/s
	volume flow	liter/second	L/s
	temperature	degree Celsius	°C
	force	newton, kilonewton	N, kN
	pressure	kilopascal	kPa
	energy,work	kilojoule, megajoule	kJ, MJ
	rate of heat flow	watt, kilowatt	W, Kw
Electrical	length	meter, millimeter	m, mm
	frequency	hertz	Hz
	power	watt, kilowatt	W, Kw
	energy	megajoule kilowatt hour	MJ kWh
	electric current	ampere	A
	electric potential	volt, kilovolt	V,kV
	resistance	ohm	Ω

Candela per Square Foot

Candela

cd

Decibel

Double

Db.

Dbl.

Α	Area Square Feet, Ampere	CD	Grade of Plywood Face & Back	DC	Direct Current
A.C.	Alternating Current	Cefi.	Cement Finisher	Demob.	Demolilization
	Air Conditioning	Cem.	Cement	d.f.u.	Drainage Fixture Units
A.C.I.	American Concrete Institute	CF	Hundred Feet	D.H.	Double Hung
Addit.	Additional	C.F.	Cubic Feet	DHW	Domestic Hot Water
A.G.A.	American Gas Association	CFM	Cubic Feet per Minute	Diag.	Diagonal
Agg.	Aggregate	c.g.	Center of Gravity	Diam.	Diameter
A.H.U.	Air Handling Unit	CHW	Chilled Water; Commercial	D:-1-11	F3 T34 W
	All Flatiding Offic	CHVV	Hot Water	Distrib.	Distribution
Alum.	Aluminum	C.I.	Cast Iron	Dk.	Deck
A	Ampere	C.I.P.	Cast in Place	D.L.	Dead Load, Diesel
Anod.	Anodized	circ.	Circuit	DLH	Deep Long Span Bar
Approx.	Approximate	Clab.	Common Laborer	Do.	Ditto
Apt.	Apartment	C.L.F.	Hundred Linear Feet	Dp.	Depth
A.S.H.R.A.E.	American Society of Heating, Refig. & AC Engineers	CLF.	Current Limiting Fuse	D.P.S.T.	Double Pole, Single Throw
A.S.T.M.	American Society for Testing	cm	Centimeter	Dr.	Deliver
	and Materials	cm	2800 V. V. VIII VIII V. VIII V. V.		Driver
Avg.	Average	CMP	Corrugated Metal Pipe	Drink.	Drinking
A.W.G.	American Wire Gauge	C.M.U.	Concrete Masonry Unit	D.S.	Double Strength
Bbl.	Barrel	CN	Change Notice	Dty.	Duty
B. & B.	Balled & Burlapped	Col.	Column	DWV	Drain Waste Vent
B.& S.	Bell and Spigot	CO2	Carbon Dioxide	DX	Deluxe White, Direct Expansion
B & W.	Black and White	Comb.	Combination	dyn	Dyne
B.C.Y.	Bank Cubic yards	Compr.	Compressor	e	Eccentricity
BE	Bevel End	Conc.	Concrete	E	Equipment Only; East
B.F.	Board Feet	Cont.	Continous; Continued	Ea.	Each
Bg. cem.	Bag of Cement	Corr.	Corrugated	E.B.	Encased Burial
BHP	Boiler Horsepower	Cos	Cosine	Econ.	Economy
B.I.	Black Iron	Cot	Cotangent	EDP	Electronic Data Processing
Bit.;Bitum.	Bituminous	Cov.	Cover	EIFS	Exterior Insulation Finish System
Bkrs.	Breakers	CPA	Control Point Adjustment	Eq.	Equation
Bldg.	Building	Cplg.	Coupling	Elec.	Electrician, Electrical
Blk.	Block	C.P.M.	Critical Path Method	Elev.	Elevator, Elavating
Bm.	Beam	CPVC	Chlorinated Polyvinul Chloride	EMT	Electrical Metallic Conduit, Thin Wall Conduit
B.P.M.	Blows per Minute	C.Pr.	Hundred Pair	Eng.	Engine, Engineered
BR	Bedroom	CRC	Cold Rolled Channel	EPDM	Ethylene Propylene Diene Monomer
Brhe.	Bricklayer Helper	Creos.	Creosote	EPS	Expanded Polystyrene
Bric.	Bricklayer	Crpt.	Carpet & Linoleum Layer	Eqhv.	Equipment Operator, Heavy
Brk.	Brick	CRT	Cathode-ray Tube	Eqlt.	Equipment Operator, Light
Brs.	Brass	cs	Carbon Steel	Eqmm.	Equipment Operator, Mater Mechanic
Brz.	Bronze	Csc	Cosecant	Equip.	Equipment
Btr.	Better	C.S.F.	Hudred Square Feet	ERW	Electric Resistance Welded
BTU	British Thermal Unit	CSI	Construction Specifications Institute	Est.	Estimated
втин	BTU per Hour	C.T.	Current Transformer	E.W.	Each Way
B.U.R.	Built-up Roofing	CTS	Copper Tube Size	EWT	Entering Water Temperature
Bx	Interlocked Armored Cable	Cu	Copper, Cubic	Excav.	Excavation
C	Conductivity, Copper Sweat	Cu.Ft.	Cubic Feet	Exp.	Expansion, Exposure
С	Hudred; Centigrade	C.W.	Cool White; Cold Water	Ext.	Exterior
C/C	Center to Center	Cwt.	100 Pounds	Extru.	Extrusion
Cab.	Cabinet	C.W.X.	Cool White Deluxe	f.	Fiber Stress
Cair.	Air Tool Laborer	C.Y.	Cubic Yard	F	Fahrenheit; Female; Fill
Calc	Calculated	C.Y./Hr.	Cubic Yard per Hour	Fab.	Fabricated
Сар.	Capacity	Cyl.	Cylinder	FBGS	Fiberglass
Carp.	Carpenter	d	Penny (nail size)	F.C.	Foot Candles
C.B.	Circuit Breaker	D	Deep; Depth; Discharge		
C.C.F.	Hundred Cubic Feet	Dis.;Disch.	Discharge		
cd	Candela	Db.	Decibel		

	Compressive Stress in		***	ĸw	Kilowatt
fc.	Concrete	Hg	Mercury	(2.00,000)	
F.E.	TIOTAL ETTO	HIC	High Interrupting Capacity	KWh	Kilowatt-hour Labor Only; Length; Long;
FEP	Propylene; (Teflon)	нм	Hollow Metal	L	Medium Wall Copper Tubing
F.H.A.	Federal Housing Administration	H.O.	High Output	Lab.	Labor
Fig.	1 19010	Horiz.	Horizontal	lat	Latitude
Fixt.	, bitter o	H.P.	Horsepower; High Pressure	Lath. Lav.	Lather Lavatory
FI.Oz.		H.P.F.	High Power Factor Hour	lb.; #	Pound
FIr.		Hr.	Hour	TO CHANGE OF THE PARTY OF THE P	Load Beraring; L Conduit
F.M.	Factory Mutual	Hrs./Day	Hours per Day	L.B.	Body
Fmg.	, , , , , , , , , , , , , , , , , , , ,	HSC	High Short Circuit	L & E lb./hr.	Labor & Equipment Pounds per Hour
Fndtn.		Ht.	Height	lb./L.F.	Pounds per Linear Foot
Fori.		Htg. Htrs.	Heating Heaters	lbf/sq.in.	Pound-force per Square Inch
Foro. Fount.	Foreman, Outside Fountain	HVAC	Heating, Ventilation & Air-	L.C.L.	Less than Carload Lot
	The Commence of the Commence o	11	Conditioning Heavy	Ld.	Load
FPM	Feet per Minute	Hvy. HW	Hot Water	LE	Lead Equivalent
FPT	Female Pipe Thread Frame	Hyd; Hydr.	Hydraulic	LED	Light Emitting Diode
Fr. F.R.	Fire Rating	Hz	Hertz (cycles)	L.F.	Linear Foot
FRK	Foil Reinforced Kraft	I.	Moment of Inertia	Lg.	Long; Length; Large
FRP	Fiberglass Reinforced Plastic	0700	Interrupting Capacity	L&H	Light and Heat
FS	Forged Steel	ID	Inside Diameter	LH	Long Span Bar Joist, Labor Hours
Ft.	Foot, Feet	LF.	Inside Frosted	L.L.	Live Load
Ftng.	Fitting	I.M.C.	Intermediate Metal Conduit	L.L.D.	Lamp Lumen Depreciation
Ftg.	Footing	In.	Inch	lm	Lumen
Ft. Lb.	Foot Pound	Incan.	Incandescent	lm/sf	Lumen per Square Foot
Furn.	Furniture	Incl.	Included; Including	lm/W	Lumen per Watt
FVNR	Full Voltage Non-Reversing	Int.	Interior	L.O.A.	Length Over All
FXM	Female by Male	Inst.	Installation	log	Logarithm Liquefied Petroleum; Low
Fy	Minimum Uield Stress of Steel	Insul.	Insulation/Insulated	L.P.	Pressure
g	Gram	I.P.	Iron Pipe	L.P.F.	Low Power Factor
G	Gauss	I.P.S.	Iron Pipe Size	LR L.S.	Long Radius Lump Sum
Ga.	Gauge	I.P.T.	Iron Pipe Threaded	L.S. Lt.	Light
Gal.	Gallon	I.W.	Indirect Waste Joule	Lt.Ga.	Light Gauge
Gal.	Gallon	J	Thousand; Heavy Wall	Military (1987)	C-250
Galv.	Galvanized	K	Copper Tubing	L.T.L.	Less than Truckload Lot Lightweight
Gen.	General	K.A.H.	Thousand Ampere Hours	Lt. Wt. L.V.	Low Voltage
G.F.I.	Ground Fault Interrupter	KCMIL	Thousand Circular Mils	L.V.	Thousand, Material, Male,
Glaz.	Glazier	K.D.A.T.	Kiln Dried After Treatment	M	Light Wall Copper Tubing
GPD	Gallons per Day	kg	Kilogram	m/hr; M.H.	Man-hour Milliampere
GPH	Gallons per Hour	kG	Kilogauss	mA Mach	Machine
GPM	Gallons per Minute	kgf	Kilogram Force	Mach. Mag.Str.	Magnetic Starter
GR	Grade	kHz	Kilohertz 1000 Pounds	Maint.	Maintenance
Gran.	Granular	Kip.	Kilojoule	Marb.	Marble Setter
Grnd.	Ground	KJ K.L.	Effective Length Factor	Mat; Mat'l	Material
H	High; High Strength Joist	K.L.F.	Kips per Linear Foot	Max.	Maximum
H.C.	High Capacity Heavy Duty, High Density	Km	Kilometer	MBF	Thousand Board Feet
H.D.	Heavy Duty, High Density	K.S.F.	Kips per Square Foot	мвн	Thousand BTU's per hour
H.D.O. Hdr.	Header	K.S.I.	Kips per Square Inch	MC	Metal Clad Cable
Hdwe.	Hardware	K.V.	Kilovolt	M.C.F.	Thousand Cubic Feet
Help.	Helpers Average	K.V.A.	Kilovolt Ampere	M.C.F.M.	Thousand Cubic Feet per Minute
HEPA	High Efficiency Particulate Air	K.V.A.R.	Kilovar (Reactance)	M.C.M.	Thousand Circular Mils

Manufacturers Association

M.C.P.	Motor Circuit Protector	NEHB	Bolted Circuit Breaker to 60	l0\/ Plah	Plasterer Helper
MD M.D.O.	Medium Duty Medium Duty Overlaid	N.L.B. NM	Non-Load-Bearing Non-Metallic Cable	Plas.	Plasterer Plumbers Helper
Med. MF	Medium Thousand Feet	nm No.	Nanometer Number	Plum. Ply.	Plumber Plywood
M.F.B.M.	Thousan Feet Board Measu	ire NO	Normally Open	p.m.	Post Meridiem
Mfg.	Manufacturing	N.O.C.	Not Otherwise Classified	Pntd.	Printed
Mfrs. mg	Manufacturers Milligram	Nose. N.P.T.	Nosing Natinal Pipe Thread	Pord.	Painter, Ordinary
MGD	Million Gallons per Day	NQOD	Combination Plug-on/Bolt of Circuit Breaker to 240V.	PP; PPL	Pages Polypropylene
MGPH	Thousand Gallons per Hour	N.R.C.	Noise Reduction Coefficient	P.P.M.	Parts per Million
MH, M.H.	Manhole; Metal Halide; Mar Hour	N.R.S.	Non Rising Stem	Pr.	Pair
MHz	Megahertz	ns	Nanosecond	P.E.S.B.	Pre-Engineered Steel Building
Mi.	Mile	nW	Nanowatt	Prefab.	Prefabricated
MI	Malleable Iron; Mineral Insulated	ОВ	Opposing Blade	Prefin.	Prefinished
mm Mill.	Millimeter	oc	On Center	Prop.	Propelled
Min., min.	Millwright Minimum, minute	OD O.D.	Outside Diameter Outside Dimension	PSF; psf	Pounds per Square Foot
Misc.	Miscellaneous	ODS.	Overhead Distribution System	PSI; psi m PSIG	Pounds per Square Inch Pounds per Square Inch
ml	Milliliter	O.G.	Ogee	PSP	Gauge Plastic Sewer Pipe
M.L.F.	Thousand Linear Feet	O.H.	Overhead	Pspr.	Painter, Spray
Mo.	Month	0 & P	Overhead & Profit	Psst.	Painter, Structural Steel
Mobil. MPH	Mobilization Miles per Hour	Oper.	Operator	P. & T.	Pressure & Temperature
MPT	Male Pipe Thread	Opng. Orna.	Opening	Ptd.	Painted
MRT	Mile Round Trip	OSB	Ornament Oriented Strand Board	Ptns.	Partitions
ms	Millisecond	O.S. & Y.	Outside Screw and Yoke	Pu	Ultimate Load
MSR	Measurement	Ovhd.	Overhead Overhead	PVC	Polyvinyl Chloride
M.S.F.	Thousand Square Feet	owg	Oil, Water or Gas	Pvmt. Pwr.	Pavement
Mstz.	Mosaic & Terrazzo Worker	Oz.	Ounce	Q .	Power Ougatity Heat Flow
M.S.Y.	Thousand Square Yard	P.	Pole; Applied Load; Projectio	Ouan:	Quantity Heat Flow Quantity
Mtd.	Mounted	p.	Page	Q.C.	Quick Coupling
Mthe.	Mosaic & Terrazzo Helper	pape.	Paperhanger	r	Radius of Gyration
Mtng.	Mounting	P.A.P.R.	Powered Air Purifying Respirator	R	Resistance
Mult.	Multi, Multiply	PAR	Weatherproof Reflector	R.C.P.	Reinforced Concrete Pipe
M.V.A.	Million Volt Ampere Million Volt Amperes	Pc., Pcs.	Piece, Pieces	Rect.	Rectangle
M.V.A.R MV	Reactance Megavolt	P.C.	Portland Cement; Power Connector	Reg.	Regular
MW	Megawatt	P.C.F.	Pounds per Cubic Foot	Reinf.	Reinforced
MXM	Male by Male	P.C.M.	Phase Contract Microscopy Professinal Engineer;	Req'd	Required
	A CAMPAN A C	P.E.	Porcelain Enamel; Polythylene; Plain End	Res.	Resistant
MYD N	Thousand Yards	Perf.	Perforated	Resi.	Residential
14	Natural; North	Ph.	Phase	Rgh.	Rough
nA	Nanoampere	P.I.	Pressure Injected	R.H.W.	Rubber, Heat & Water Resistant; Residential Hot
NA	Not Available; Not Applicable	Pile.	Pile Driver	rms	Water Root Mean Square
N.B.C. NC	National Building Code Normally Closed	Pkg. Pl.	Package Plate	Rnd.	Round
N.E.M.A.	National Electrical	04.188	and the same and t	Rodm.	Rodman

Defe	Roofer, Composition	S.T.C.	Sound Transmission	U.H.F.	Ultra High Frequ
Rofc.			Coefficient Standard	U.L.	Underwriters La
Rofp.	Roofer, Precast Roofer Helpers	Std.	942 53772	ATRICONI ATRICONI	
Rohe.	(Composition)	STK	Select Tight Knot	Unfin.	Unfinished
Rots.	Roofer, Tile & Slate	STP	Standard Temperature & Pressure	URD	Underground Re Distribution
R.O.W.	Right of Way	Stpl.	Steamfitter, Pipefitter	US	United State
RPM	Revolutions per Minute	Str.	Strngth; Starter; Straight	USP UTP	United State Pri Unshielded Twi
R.R.	Direct Burial Feeder Conduit	Strd.	Structural	V	Volt
R.S.	Rapid Start	Struct. Sty.	Story	V.A.	Volt Ampere
Rsr RT	Riser Round Trip	Subj.	Subject	V.C.T.	Vinyl Compositi
	Suction: Single Entrance:	775		VAV	Variable Air Vol
s	South	Subs.	Subcontactors	VAV	Valiable All Vol
SCFM	Standard Cubic Feet per Minute	Surf.	Surface	vc	Veneer Core
Scaf.	Scaffold	Sw.	Switch	Vent.	Ventilation
Sch.; Sched.	Schedule	Swbd.	Switchboard	Vert.	Vertical
S.C.R.	Modular Brick	S.Y.	Square Yard	V.F.	Vinyl Faced
S.D.	Sound Deadening	Syn.	Synthetic	V.G.	Vertical Grain
S.D.R.	Standard Dimension Ratio	S.Y.P.	Souther Yellow Pine	V.H.F.	Very High Prequent
S.E.	Surfaced Edge	Sys.	System	VHO Vib.	Very High Outp Vibrating
Sel.	Select	t. T	Thickness Temperature, Ton	V.L.F.	Vertical Linear I
S.E.R	Service Entrance Cable	Tan	Tangent	Vol.	Volume
S.E.U. S.F.	Service Entrance Cable Square Foot	T.C.	Terra Cotta	VRP	Vinyl Reinforce
S.F.C.A.	Square Foot Contact Area	T&C	Threaded and Coupled	w	Wire; Watt; Wid
S.F.G.	Square Foot of Ground	T.D.	Temperature Difference	w/	With
S.F.Hor.	Square Foot Horizontal	T.E.M.	Transmission Electron Microscopy	w.c.	Water Column;
S.F.R.	Square Foot of Radiation	TFE	Tetrafluoroethylene (Teflon)	W.F.	Wide Flange
S.F.Shlf.	Square Foot of Shelf	T. & G.	Tongue & Groove; Tar & Gravel	W.G.	Water Gauge
S4S	Surface 4 Sides	Th.; Thk.	Thick	Wldg.	Welding
Shee.	Sheet Metal Worker	Thn.	Thin	W. Mile	Wire Mile
Sin.	Sine	Thrded	Threaded	W-O-L	Weldolet
Skwk.	Skilled Worker	Tilf.	Tile Layer, Floor	W.R. Wrck.	Water Resistan Wrecker
S.L.	Slimline .	Tilh.	Tile Layer, Helper Nylon Jacketed Wire	W.S.P.	Water, Stream,
Sldr.	Solder	THHN THW.	Insulated Strand Wire	WT., Wt.	Weight
SLH S.N.	Super Long Span Bar Joist Solid Neutral	THWN	Nylon Jacketed Wire	WWF	Welded Wire Fa
S.P.	Static Pressure; Single Pole; Self-Profelled	T.L.	Truckload	XFMR	Transformer
Spri.	Sprinkler Installer	T.M.	Track Mounted	XHD	Extra Heavy Du
S.P.D.T.	Single Pole, Double Throw	Tot.	Total	XHHW	Cross-Linked P Wire Insulation
S.P.S.T.	Single Pole, Single Throw	T-O-L	Threadolet	Y	Wye
SPT	Standard Pipe Thread	T.S.	Trigger Start	yd	Yard Year
Sq.	Square; 100 Squre Feet	Tr.	Trade	yr	Delta
SQM	Square Meter	Transf.	Transformer	Δ	
Sq. Hd.	Square Head	Trhv.	Truck Driver, Heavy	%	Percentage
Sq. In.	Square Inch	Trir.	Trailer	2	Approximately
SR	Suadi Riyals	Trit.	Truck Driver, Light	Ø	Phase
S.S.	Single Strength; Stainless Steel	TV	Television	@	At
S.S.B.	Sigle Strength B Grade	T.W.	Thermoplastic Water Resistant Wire	#	Pound; Numbe
Sswk.	Structural Steel Worker	UCI	Uniform Construction Index	<	Less Than
Sswl.	Structural Steel Welder	UF	Underground Feeder	>	Greater Than
St.; Stl.	Steel	UGND	Underground Feeder	2 12 K	

High Frequency rwriters Laboratory shed rground Residential oution d State d State Printed elded Twiested Pair Composition Tiles ble Air Volume er Core ation al Faced al Grain High Prequency High Output ting al Linear Foot Reinforced Polyester Watt; Wide; West Column; Water Closet Flange r Gauge ing Mile olet r Resistant ker r, Stream, Petroleum ed Wire Fabric sformer Heavy Duty s-Linked Polyethlene Insulation entage oximately d; Number Than

Comments & Suggestions

The Riyadh Chamber of Commerce & Industry is proud to accept any comments and suggestions about this book. Comments and suggestions may be applied in its succeeding edition to enhance the usability, easy accessibility and understanding of this Construction Cost Estimate, please use the format below:

1. Do you have andy comments or suggestion on the Divisions of the Cost Index?

CSI No.	COMMENTS
2. Do you find the font S	ize of the Tables:
Readable	☐ Needs to be larger
3. Do you find the term Appropriate?	inology and abbreviations used in the Cost Index clear and
Yes	□No
4. Do you prefer having t	the Cost Index on a Compact Disc (CD)?
Yes	□No
Do you believe that r Sections) to simplify th	more information should be added (in the Material or Labor ne use of the Cost Index? If yes, please state:
Yes	□ No

General Directorate of Contracors

Tel.: 4040044 Ext.: 604, 290, 170 - Fax: 455850 - e-mail: contractors@rdcci.org.sa

Division Notes.. Labor

CSI CODE	ITEM DESCRIPTION	UNIT	CREW STRUCTURE	DAILY OUTPUT	MAIN HOURS	EQUIP. Hours
CODE		- N			1100110	1100110
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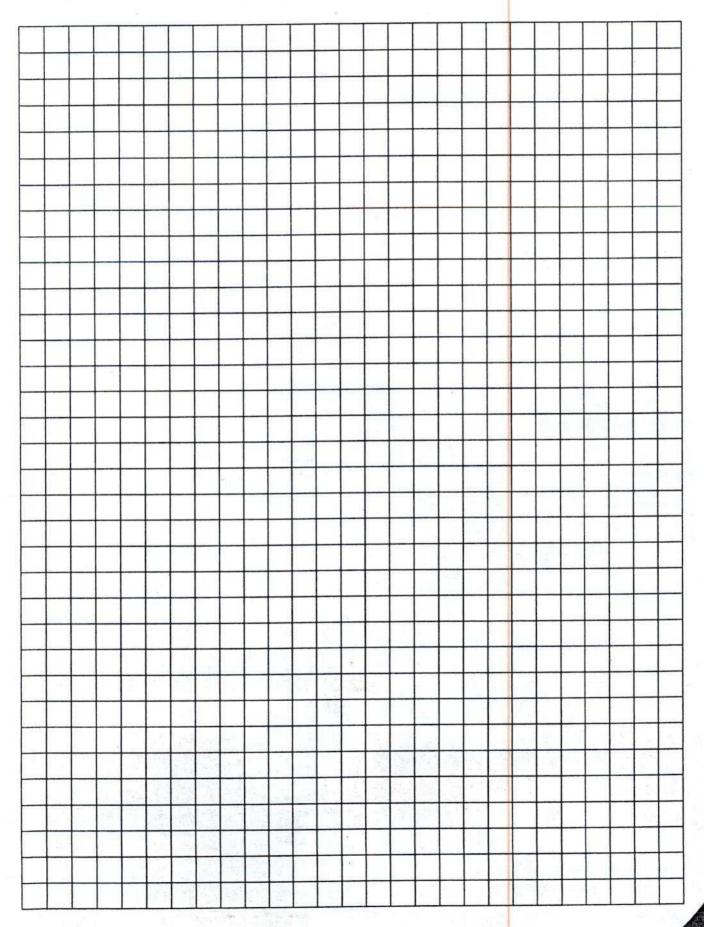
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Division Notes.. Material

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Notes..





Engineering Consultant ZAKI M.A.FARSI

REAL ESTATE DEVELOPMENT DPT

Ohr papering office has provided anism iding pieces of work sheet began activates in 1977 through the department of Real Estate Development. The Department is engaged in the promotion of projects through a number of statics aimed needing needs of those seeking factorious horizing children where it designed and promoted Councile Plaza Building and Farst Plaza Building as per the latest rechniques of architecture and building Maintaining the privacy of Saudi families. As an extension to this approach Councile Gardens at Councile Jedali is being millemented.



Works of the office also include villas palaces, residential complexes and exquisite apartments, thus reflecting lovely touches as well as providing luxurious housing tequirements.

As an extension to the natural development of the office to cope with architectural arts being witnessed by the Kingdom by establishing hig commercial and.

Administrative centers, the office and leveloped Farsi Center building at Crown Prince Street Jeddah, in addition to the implementation of medium-sized administrative buildings suitable to shelter rading companies and banks. In general the projects, designed and promoted by our office have become an outstanding landmarks of construction.



Earning a unique position to have all services in addition to suitability of its areas to needs of Saudi families. In accordance to this principle the Farsi Towers project is being executed at Jeddah's Corniche north of Atallah Park, in which we were able to add a unique element separate from our other projects due to it's reliance on luxury standards for a family dwelling place to truly be a residence to those seeking a new style it.

The project units provide a unique panoramic over looking sea and Corniche directly







Efficiencies & quality which we build into a project is our cherished goal at EI SEIF
Engineering Contracting

اهمة في بناء مستقبل أفضل اء المستشفيات ، مشاريع تقنية اريع سكنية ، مشاريع عسكرية معات تجارية ، إدارة مشاريع تطويرية اطات تطويرية ، مشاريع تطويرية الطات تطويرية ، مشاريع تطويرية المشاريع تطويرية المالك TECHNICAL PROJECT MILITAR PROJECT MANAGEM RESIDENTIAL COMPLEX ROFESSIONAL PROJECT MANAGEM NTERNATIONAL REPUTATIONAL
ودة والدقة والنوعية هو هدفنا الذي نسعى إليه